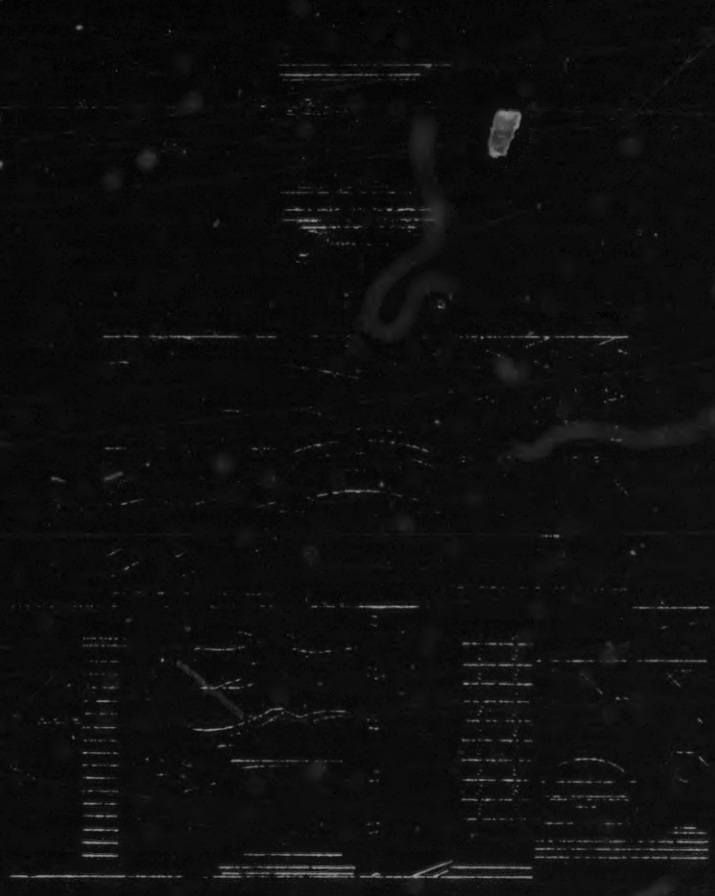


110

1911

Summary of the 1911 Census

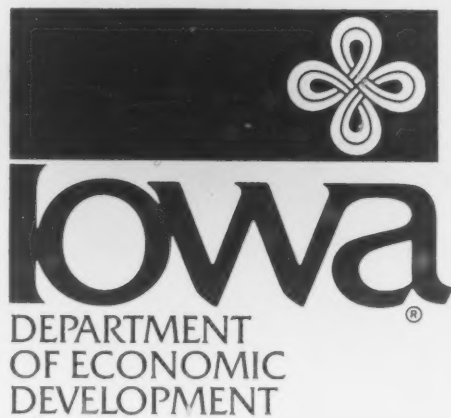


Iowa Department of Economic Development

BEST AVAILABLE COPY

Did You Know?

- Among the fifty states, Iowa ranks 29th in population and 25th in land area.
- Iowa has more miles of roads than 40 other states, even though it's only twenty-fifth in area.
- Iowa farmers produced more than \$9 billion in crops and livestock in 1988.
- The violent crime rate in Iowa is 60% lower than the national average.
- The 1989 census estimate for Iowa's population was 2,840,000.
- In 1988, the largest source of personal income for Iowans was manufacturing, followed by services, wholesale/retail trade, and government.
- 25% of America's pork and 8% of the nation's grain fed beef are raised in Iowa.
- Iowa ranked second in value of agricultural exports, with \$2.9 billion in 1988.
- Iowa ranked first in the nation in production of red meat in 1988.
- 85.8% of Iowa's students graduate from high school compared to a national average of 71.7%.
- Iowa students ranked 1st in the nation in ACT and SAT scores for the past several years.
- According to the SBA, Iowa was second in the rate of new business incorporations for 1989.
- Iowa ranks 35th in the nation in motor vehicle deaths per 100,000 population.
- Iowans rank third in the U.S. in longevity at 75.81 years of age.
- The jobless rate in Iowa dropped to the lowest level of the decade in 1989 at 4.3%.
- Iowa's new employee unemployment insurance rate is the lowest in the nation at 1%.
- In a survey of 83 major cities, Des Moines ranked fifth lowest in the median sales price for homes in 1989.
- Iowa's population increased for the second year in 1989, following six years of decline.
- No Iowan is more than 25 miles from a hospital.
- Iowa's sales tax is 4%.
- In 1989, tourists in the state of Iowa spent an average of \$91.87 a day and stayed an average of 3.1 days.
- Iowa is the only state bordered by two navigable rivers.
- More than 90% of Iowa's businesses are classified as small (with fewer than 20 employees).
- Iowa has over 350 golf courses.



**1991
STATISTICAL PROFILE
OF IOWA**



The text of this publication is printed on recycled paper.

IOWA DEPARTMENT OF ECONOMIC DEVELOPMENT
200 E. Grand Avenue
Des Moines, Iowa 50309

Preface

The 1991 edition of the Statistical Profile of Iowa covers thirteen major topics including: population, education, quality of life, business climate, workforce, economy/income, government finances/taxes, tourism, transportation, exports, energy, climate, and families and children. The data presented have been gathered from various government and private sources which are listed at the end of each table. Additional information on specific subjects may be obtained by contacting those agencies/individuals listed in the Reference Section (Appendix A).

The Profile is available at no charge by writing the Iowa Department of Economic Development, Bureau of Planning and Research, or by calling (515) 281-3925. The data may also be accessed at no charge (by anyone with a modem) through the Iowa Bulletin Board Service (IBBS), run by the State of Iowa. The data is in spreadsheet format in Lotus-123 files. Registered users are entitled to an hour of usage for each call. New users must register the first time they use the board. The number to access the IBBS is (515) 281-7690. The service operates 24 hours a day at 2400, 1200, or 300 baud. The files will be listed under the SPI (Statistical Profile of Iowa) area in the files menu. If you have any questions about how to use the IBBS, call (515) 281-5316.

User suggestions on ways to improve the Statistical Profile of Iowa, or recommendations for inclusion of new information are welcome. Please return the enclosed questionnaire (inside the back cover) with your comments. Additional correspondence concerning this publication should be addressed to Bureau of Planning and Research, Iowa Department of Economic Development, 200 E. Grand Ave. Des Moines, Iowa 50309.

Definitions For Terms Used Throughout This Book:

N/A = Not Available or Not Applicable

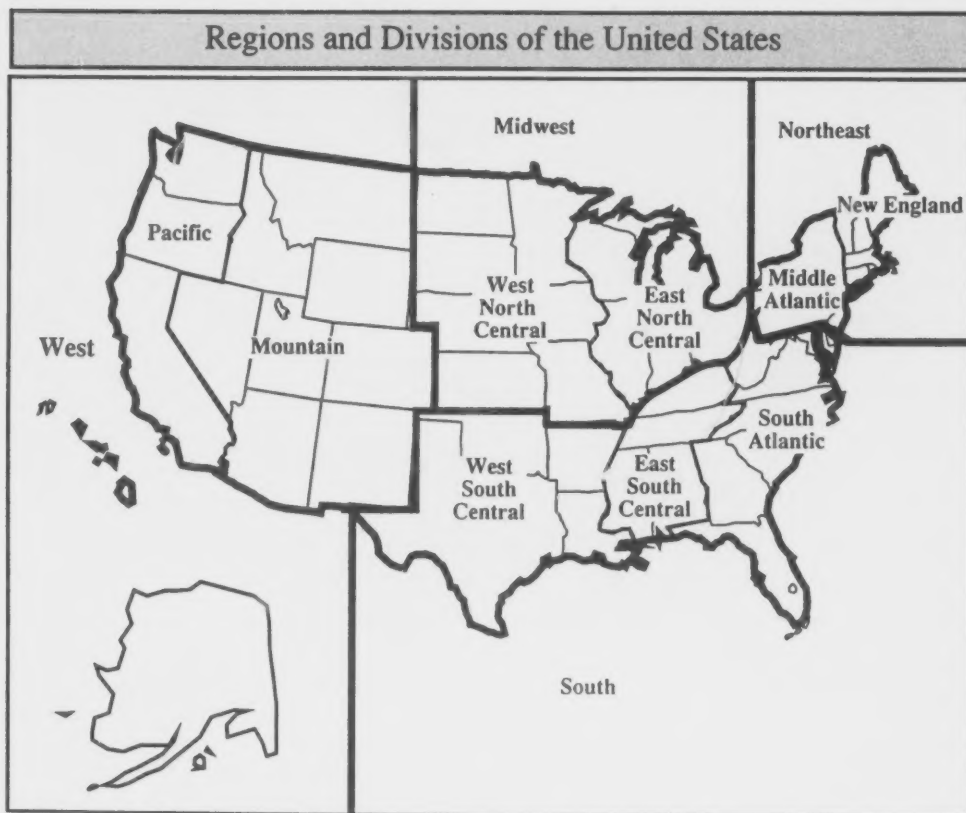
MSA = Metropolitan Statistical Area. An MSA, defined June 30, 1983 by the U.S. Office of Management and Budget must include at least:

- a. One city with 50,000 or more inhabitants, or
- b. A Census Bureau-defined urbanized area of at least 50,000 inhabitants and a total MSA population of at least 100,000 (75,000 in New England).

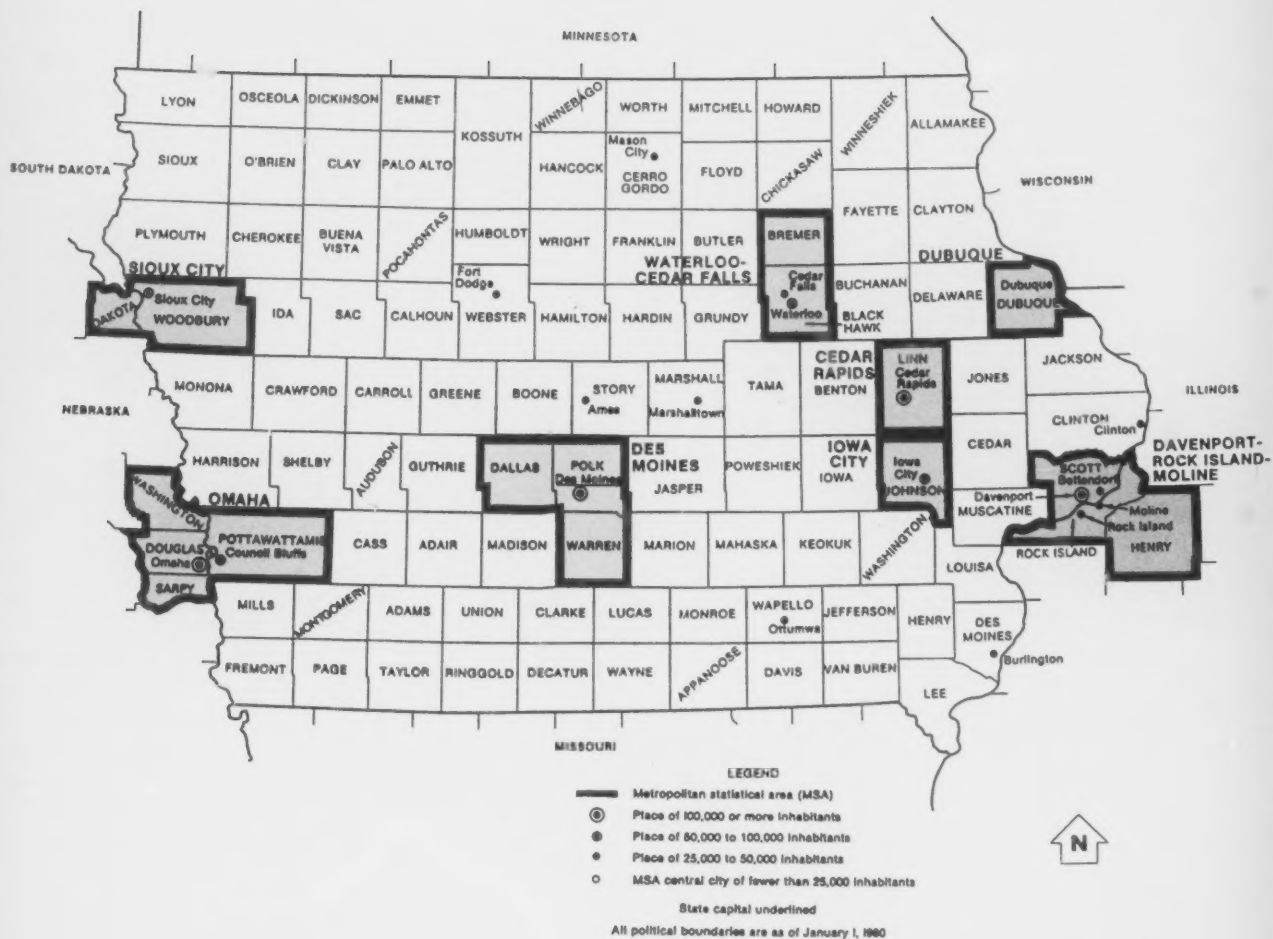
NOTE: Iowa has seven MSA's (see map on following page).

SIC = Standard Industrial Classification. The SIC is a system for classifying establishments by type of economic activity. Each establishment is classified according to its primary activity.

MIDWESTERN STATES = The following states are designated as Midwestern: Iowa, Illinois, Indiana, Michigan, Ohio, Wisconsin, Kansas, Minnesota, Missouri, Nebraska, North Dakota and South Dakota. This designation was made according to the U.S. Census Bureau definition of the Midwest. (see the map below).



Iowa Counties, Metropolitan Statistical Areas, and Selected Places



Source: U.S. Department of Commerce, Bureau of the Census

Table of Contents

	Page
Preface	i
Definitions & Map of U.S. Census Regions	ii
Map of Iowa Counties/MSA's	iii
List of Illustrations	vii
I. POPULATION	
Population Highlights	1
1980-1988 Population Change for Counties	2
Iowa's 100 Fastest Growing Communities	4
Population Estimates (in 1,000's) by Age and Sex	5
Population Estimates by Race and Hispanic Origin	5
Iowa Population Projections by Year and County	6
Iowa Population Trends 1960-1989	7
Iowa Population Projections by Age	8
II. EDUCATION	
Education Highlights	9
Public School Enrollment	9
High School Graduation Rate, 1987-1988	9
Expenditures per Pupil in Public Elementary/Secondary Schools, Midwest	10
School Enrollment by County, Public and Nonpublic	10
Higher Education Highlights	12
Number and Enrollment of Higher Education Schools	12
Iowa's Area Colleges	13
Area Community College Enrollment	13
Tuition and Fees at "Flagship" Universities, Midwest	14
ACT College Entrance Exam, Average Score	14
Degrees Conferred by Discipline from Iowa Colleges and Universities	15
III. QUALITY OF LIFE	
A. Crime	
Crime Rates, 1988	16
Comparison of Crime Rates, Iowa-Region-U.S., 1988	17
Crimes Reported in Iowa Counties, 1988	18
B. Housing	
Iowa Housing Facts	20
Iowa Residential Sales Data, 1988-1989	20
Median Sales Price of Existing Single Family Homes	21
Comparison of Housing Cost to Median Income Levels	22
C. Health	
Registered Hospitals, Midwest 1988	24
Licensed Medical Professionals	24
Number of Practicing Physicians by County	24
Selected Vital Events for Iowa	25
15 Leading Causes of Death in Iowa, 1988	26
Selected Cardiovascular Disease Deaths, Iowa	27
Selected Causes of Death by Year, 1978-1988	27
IV. BUSINESS CLIMATE	
Fortune 500 in Iowa	28
Iowa Establishments, Employees, and Payroll by County	31
Manufacturing Statistics and Productivity by State, 1989	33
Value-added per Manufacturing Worker, Midwest	33
Job Training in Iowa	34

Major Industries In Iowa:

A. Agriculture

Ten Leading States in Agriculture Production, 1988	35
1988 Iowa Farm Receipts Highlights	36
Iowa Cash Farm Income by Commodities	36
Average Per Acre Value of Farmland and Buildings, Midwest	36
Iowa Realized Gross Farm Income	37
Iowa Realized Net Farm Income	37
Cash Receipts from Marketings, 1987-1988, Iowa and Top Ten States	37
Iowa Farms: Number, Average Size, and Land	38
Iowa Farmers by Age Group; Farms by Type of Organization	38
Change in Iowa Farmland Values, 1966-1988	38
Comparative Iowa Land Values by County, 1988-1989	39
Iowa Farms: Number and Average Size, by County, 1988	41
Yield & Production of Corn and Soybeans by County	43
Hogs and Grain Fed Cattle Marketed, Cows and Heifers Calved by County	45

B. Communications

Communications Media	47
Telecommunications in Iowa	48

C. Construction

Iowa Construction Industry: Establishments, Employees and Payroll, 1987	49
New Privately-owned Housing Units Authorized in Permit Issuing Places	49
Number and Value of Housing Permits for Single, Two Family, and Multiple Dwellings	50

D. Finance

Total Bank Deposits, Assets, and Loans, Iowa and Contiguous States	51
Iowa Chartered Banks	52
Iowa Savings and Loan Associations	52
Iowa Chartered Credit Unions	52

E. Insurance

Insurance Highlights	53
Number of Insurance Companies Operating in Iowa	53
Insurance Premiums Written in Iowa by Class of Insurer	53
Average Amount of Life Insurance in Force per Family	54

F. Retail/Wholesale Trade

Retail Trade: Establishments, Employees, and Payroll, 1987	55
Retail Sales by Store Group for Iowa Communities and MSA's	56
Wholesale Trade: Establishments, Employees, and Payroll, 1987	58

G. Service

Service Industry: Establishments, Employees, and Payroll, 1987	59
--	----

V. WORKFORCE

Workforce Highlights	61
Employment and Unemployment, Iowa and U.S., 1978-1989	61
New Jobs Created in Iowa, by Industry, 1985-1989	62
Midwest Employment Climate 1986-1989	62
Metropolitan Workforce	62
Iowa Employment by Industry, Annual Averages	63
Average Hours and Earnings by Industry in Iowa 1986-1989	63
Iowa Unemployment Rates by County	64

VI. ECONOMY/INCOME

Gross State Product by Industry - Midwest States	66
U.S. Consumer Price Index and Inflation Rate	67
Total Gross State Product by State	68
Annual Indicators of the Iowa Economy	69
Per Capita Personal Income, Midwest	69
Total Personal Income, 1985-1988, Midwest	70
Personal Income by Source, 1988, Midwest	70
Trend in State Personal Income by Source, Iowa	72
Total Personal Income and Per Capita Personal Income by County, Iowa	73
Total Personal Income and Per Capita Personal Income by MSA	74
Effective Buying Income for Iowa Counties and MSA's, 1988	75

VII. GOVERNMENT FINANCES/TAXES

Government Finances/Taxes Highlights	77
Per Capita State and Local Government Expenditures	78
Sales Tax (Percent and Per Capita) by State	78
State of Iowa General Fund Receipts	79
State Government Revenues by Type of Tax	80

VIII. TOURISM

Tourism Highlights	81
Requests for Tourism Information	81
Impact of Travel on Iowa Counties, 1988	81
Welcome Center Survey Results	83
Recreation Statistics, 1988	83
State Park Visitation Data	84

IX. TRANSPORTATION

Iowa Transportation Summary	85
Iowa's Transportation Industry: Establishments, Employees, and Payroll, 1987	86
Public Transit	87
Road Construction Expenditures	87
Traffic Fatalities, Midwest, 1985-1988	87
Iowa Motor Vehicle Registrations by County, 1990	88
Commercial Navigation Tonnage	89
River Transportation Highlights	89
Rail Transportation Highlights	90
Class I, II, and III Railroads	90
Air Transportation Highlights	91
Registered Aircraft	91

X. EXPORTS

Top Ten States in Agriculture Exports, 1988	92
Five Leading States in Agriculture Exports by Commodity Group	92
Value of Agricultural Exports, Iowa/U.S.	93
Iowa's Top 5 Agricultural Export Countries by Product	93
Exports from Iowa by Country, 1988	93
Export Shipments from Iowa by Industry, 1987-1988	94

XI. ENERGY

Typical Monthly Electric Bill for Residential Service	95
Gas Utility Industry Average Prices, by State and Class of Service	98
Ranking of Gas Utility Prices by State	99
Average Electric Retail Price and Monthly Consumption by State	100
Total Iowa Energy Consumption, 1985-1987	100
Iowa's Primary Energy Use, 1980-1987	101
Major Components of Iowa's Energy Cost, 1987	101
Total Energy Consumption by Source, Iowa, 1980-1987	101
Expenditures of Energy, Iowa, 1980-1987	102

XII. CLIMATE

Iowa's Climate	103
Normal Temperature and Precipitation, Iowa Cities	103
Climate: Monthly and Annual Averages	104

XIII. FAMILIES AND CHILDREN

Families and Children Highlights	105
Type of Family by Marital Status and Sex of Householders	105
Type of Family by Presence and Number of Own Children	106
Selected Family Types by Marital Status, Iowa, 1960-1980	106
Selected Family Types by Age of Householder, 1960-1980	106
AFDC Recipients, 1988	107
Food Stamp Recipients, 1988	108

APPENDIX A

Reference Section	109
-------------------------	-----

List of Illustrations

	Page
Regions & Division of the United States (Map)	ii
Iowa Counties, MSA's & Selected Places (Map)	iii
Iowa Population Trends, 1930-1989	1
Population For Iowa Counties	3
Iowa Migration and Population Change, 1930-1989	7
Iowa Area Colleges (Map)	13
Comparison of Crime Rates Iowa/Region/U.S.	17
Regional Totals Residential Housing Sales	20
Hospital Characteristics, Location and Size (Map)	23
Hospitals Per City (Map)	23
Comparative Iowa Land Values	40
Iowa Telecommunications Network Map	48
Iowa/U.S. Unemployment Rates, 1978-1989	61
Unemployment Rates in Iowa Counties, 1989	65
Per Capita Personal Income	70
Major Source of Personal Income, 1988	72
% Income Earned by Industry in Iowa, 1988	72
Per Capita State and Local Government Debt	78
Percent of General Fund Receipts	80
Distance from Central Iowa to Urban Markets	86
Interstate Highway System	87
River Transportation	90
Iowa Railroads	91
Iowa Publicly-owned Airports	92
Top Ten Agricultural Export States	93
Iowa Energy Use by Source	102
Pipelines Serving Iowa	103
Climate Areas in Iowa (Map)	104

POPULATION

The population of the state of Iowa is 2,840,000. The state's largest county, Polk County, has a population of 324,700. Iowa's ten largest cities are: Des Moines, 192,910; Cedar Rapids, 110,300; Davenport, 97,140; Sioux City, 79,240; Waterloo, 68,050; Dubuque, 59,360; Council Bluffs, 56,700; Iowa City, 50,770; Ames, 43,750; and Cedar Falls, 32,460.

According to U.S. Census Bureau estimates, Iowa's population increased for the second year in 1989, following six years of decline. Our increase for both years was driven mostly by our natural change and a greatly diminished level of outmigration.

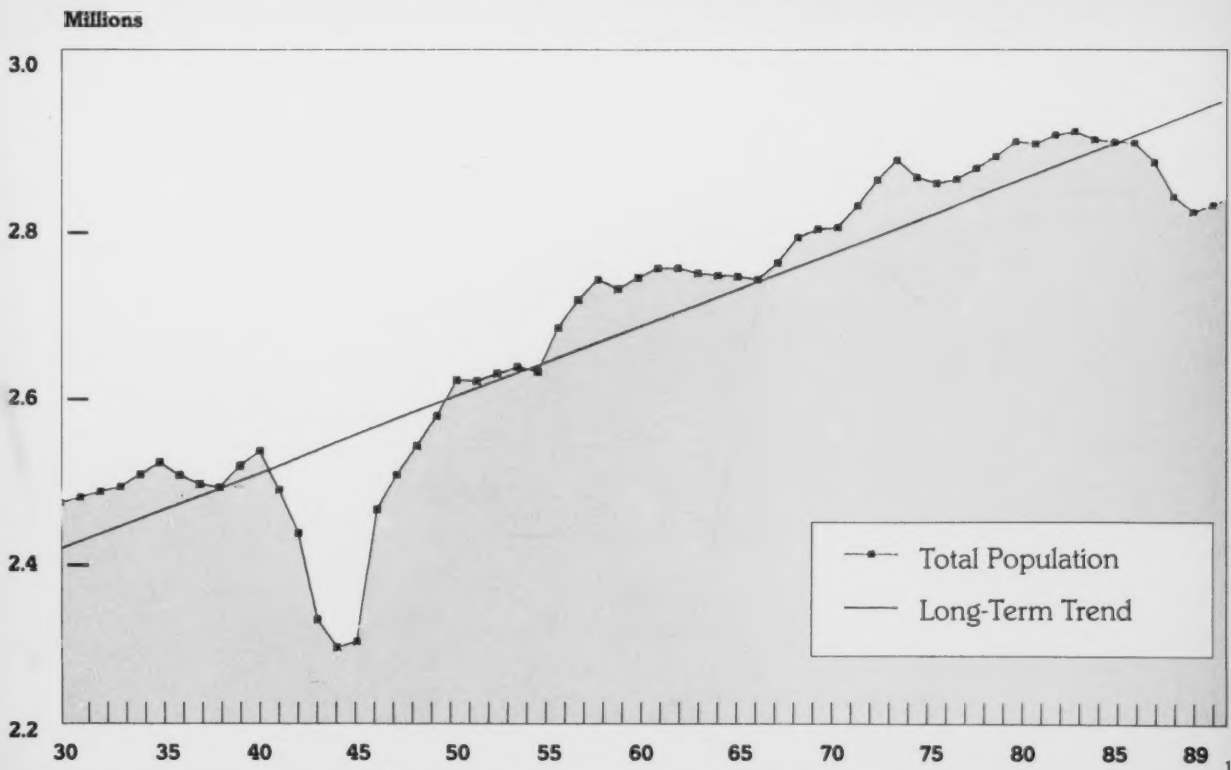
Iowa growth has been evident from many other indicators, including employment numbers, tax receipts, building permits, etc. Outmigration has been a part of our history: in only 8 years since 1915 have we had immigration (excluding the post-war years when veterans had been returning).

Iowans, on average, are older now. In 1970, the median age was about 29. This year, it is closer to 33, and by 2005, it is expected to be nearly 39. The non-white population of Iowa is expected to increase rapidly between 1990 and 2005. In the next 15 years, the white population is anticipated to grow by about 122,000 from 2.84 million to 2.96 million. During the same period, the non-white population is expected to increase by about 54,000 from about 91,000 to about 145,000.

The population is becoming more urbanized. Indeed, areas in and around several of Iowa's most rural areas hit population peaks in the year 1900 or earlier that they have never regained.



Iowa Population Trends, 1930-1989



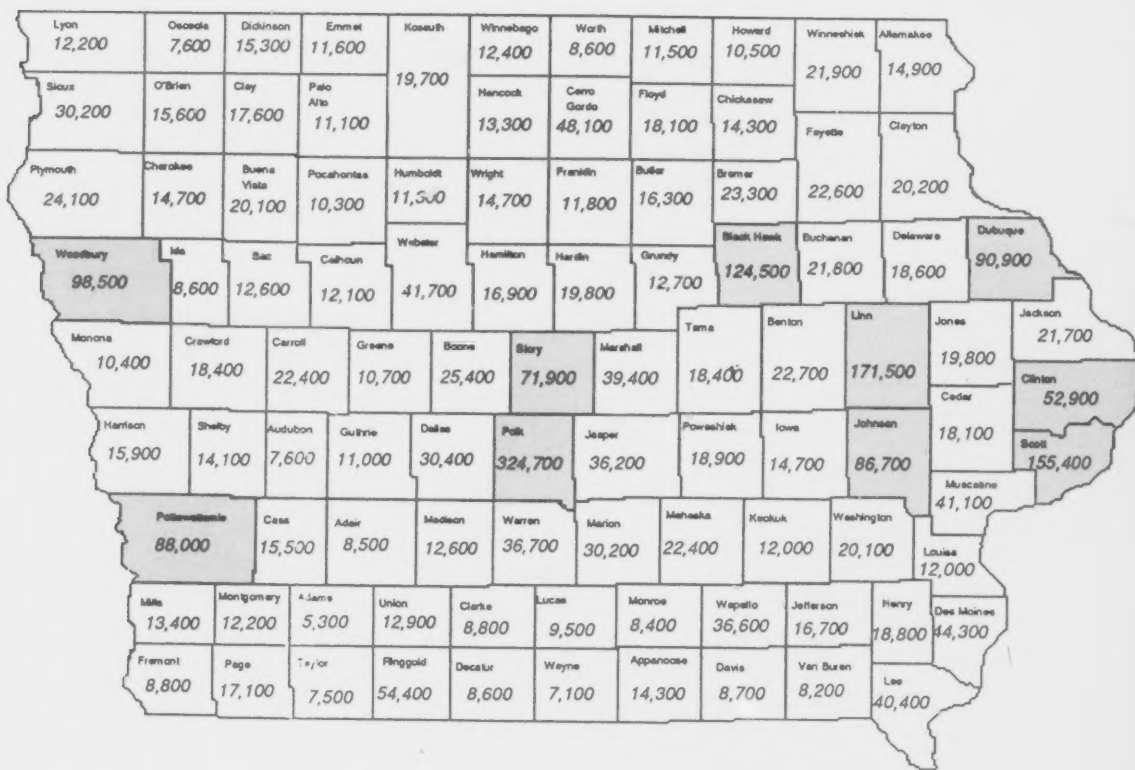
1980-88 Population Change For Iowa Counties

County	4/1/80	7/1/88*	Change	Percent Change	County	4/1/80	7/1/88*	Change	Percent Change
Adair	9,509	8,500	(1,009)	-10.61%	Jefferson	16,316	16,700	384	2.35%
Adams	5,731	5,300	(431)	-7.52%	Johnson	81,717	86,700	4,983	6.10%
Allamakee	15,108	14,900	(208)	-1.38%	Jones	20,401	19,800	(601)	-2.95%
Appanoose	15,511	14,300	(1,211)	-7.81%	Keokuk	12,921	12,000	(921)	-7.13%
Audubon	8,559	7,600	(959)	-11.20%	Kossuth	21,891	19,700	(2,191)	-10.01%
Benton	23,649	22,700	(949)	-4.01%	Lee	43,106	40,400	(2,706)	-6.28%
Black Hawk	137,961	124,500	(13,461)	-9.76%	Linn	169,775	171,500	1,725	1.02%
Boone	26,184	25,400	(784)	-2.99%	Louisa	12,055	12,000	(55)	-0.46%
Bremer	24,820	23,300	(1,520)	-6.12%	Lucas	10,313	9,500	(813)	-7.88%
Buchanan	22,900	21,800	(1,100)	-4.80%	Lyon	12,896	12,200	(696)	-5.40%
Buena Vista	20,774	20,100	(674)	-3.24%	Madison	12,597	12,600	3	0.02%
Butler	17,668	16,300	(1,368)	-7.74%	Mahaska	22,867	22,400	(467)	-2.04%
Calhoun	13,542	12,100	(1,442)	-10.65%	Marion	29,669	30,200	531	1.79%
Carroll	22,951	22,400	(551)	-2.40%	Marshall	41,652	39,400	(2,252)	-5.41%
Cass	16,932	15,500	(1,432)	-8.46%	Mills	13,406	13,400	(6)	-0.04%
Cedar	18,635	18,100	(535)	-2.87%	Mitchell	12,329	11,500	(829)	-6.72%
Cerro Gordo	48,458	48,100	(358)	-0.74%	Monona	11,692	10,400	(1,292)	-11.05%
Cherokee	16,238	14,700	(1,538)	-9.47%	Monroe	9,209	8,400	(809)	-8.78%
Chickasaw	15,437	14,300	(1,137)	-7.37%	Montgomery	13,413	12,200	(1,213)	-9.04%
Clarke	8,612	9,000	388	4.51%	Muscatine	40,436	41,100	664	1.64%
Clay	19,576	17,600	(1,976)	-10.09%	O'Brien	16,972	15,600	(1,372)	-8.08%
Clayton	21,098	20,200	(898)	-4.26%	Osceola	8,371	7,600	(771)	-9.21%
Clinton	57,122	52,900	(4,222)	-7.39%	Page	19,063	17,100	(1,963)	-10.30%
Crawford	18,935	18,400	(535)	-2.83%	Palo Alto	12,721	11,100	(1,621)	-12.74%
Dallas	29,513	30,400	887	3.01%	Plymouth	24,743	24,100	(643)	-2.60%
Davis	9,104	8,700	(404)	-4.44%	Pocahontas	11,369	10,300	(1,069)	-9.40%
Decatur	9,794	8,600	(1,194)	-12.19%	Polk	303,170	324,700	21,530	7.10%
Delaware	18,933	18,600	(333)	-1.76%	Pottawattamie	86,561	88,000	1,439	1.66%
Des Moines	46,203	44,300	(1,903)	-4.12%	Poweshiek	19,306	18,900	(406)	-2.10%
Dickinson	15,629	15,300	(329)	-2.11%	Ringgold	6,112	5,400	(712)	-11.65%
Dubuque	93,745	90,900	(2,845)	-3.03%	Sac	14,118	12,600	(1,518)	-10.75%
Emmet	13,336	11,600	(1,736)	-13.02%	Scott	160,022	155,400	(4,622)	-2.89%
Fayette	25,488	22,600	(2,888)	-11.33%	Shelby	15,043	14,100	(943)	-6.27%
Floyd	19,597	18,100	(1,497)	-7.64%	Sioux	30,813	30,200	(613)	-1.99%
Franklin	13,036	11,800	(1,236)	-9.48%	Story	72,326	71,900	(426)	-0.59%
Fremont	9,401	8,800	(601)	-6.39%	Tama	19,533	18,400	(1,133)	-5.80%
Greene	12,119	10,700	(1,419)	-11.71%	Taylor	8,353	7,500	(853)	-10.21%
Grundy	14,366	12,700	(1,666)	-11.60%	Union	13,858	12,900	(958)	-6.91%
Guthrie	11,983	11,000	(983)	-8.20%	Van Buren	8,626	8,200	(426)	-4.94%
Hamilton	17,862	16,900	(962)	-5.39%	Wapello	40,241	36,600	(3,641)	-9.05%
Hancock	13,833	13,300	(533)	-3.85%	Warren	34,878	36,700	1,822	5.22%
Hardin	21,776	19,800	(1,976)	-9.07%	Washington	20,141	20,100	(41)	-0.20%
Harrison	16,348	15,900	(448)	-2.74%	Wayne	8,199	7,100	(1,099)	-13.40%
Henry	18,890	18,800	(90)	-0.48%	Webster	45,953	41,700	(4,253)	-9.26%
Howard	11,114	10,500	(614)	-5.52%	Winnebago	13,010	12,400	(610)	-4.69%
Humbolt	12,246	11,300	(946)	-7.72%	Winneshek	21,876	21,900	24	0.11%
Ida	8,908	8,600	(308)	-3.46%	Woodbury	100,884	98,500	(2,384)	-2.36%
Iowa	15,429	14,700	(729)	-4.72%	Worth	9,075	8,600	(475)	-5.23%
Jackson	22,503	21,700	(803)	-3.57%	Wright	16,319	14,700	(1,619)	-9.92%
Jasper	36,425	36,200	(225)	-0.62%					
					State Total	2,913,808	2,854,000	(79,808)	-2.74%

* Estimate

Source: U.S. Department of Commerce, Bureau of the Census, Current Population Reports, Series P 26

1988 Population For Iowa Counties



TEN LARGEST COUNTIES	JULY 1, 1968	APRIL 1, 1980 (CENSUS)	Percent Change 1960-80
Polk	324,700	303,170	7.1
Linn	171,500	169,775	1.0
Scott	155,400	160,022	-2.9
Black Hawk	124,500	137,961	-9.8
Woodbury	98,500	100,884	-2.4
Dubuque	90,900	93,745	-3.0
Pottawattamie	88,000	86,561	1.6
Johnson	86,700	81,717	6.1
Story	71,900	72,326	-0.5
Clinton	52,900	57,122	-7.7

Source: County estimates are prepared annually by the U.S. Bureau of the Census

Iowa's 100 Fastest Growing Communities, 1980-1988

COMMUNITY (ranked)	4/1/80	7/1/88*	Change	% Change	COMMUNITY (ranked)	4/1/80	7/1/88*	Change	% Change
Johnston	2,526	4,460	1,934	76.56%	Donahue	289	340	51	17.65%
North Liberty	2,046	3,150	1,104	53.96%	Thurman	221	260	39	17.65%
Bevington	60	90	30	50.00%	Altoona	5,764	6,760	996	17.28%
Ely	425	630	205	48.24%	Panorama Park	145	170	25	17.24%
Central City	1,067	1,460	413	38.71%	Galt	60	70	10	16.67%
Tiffin	413	570	157	38.01%	Randolph	223	260	37	16.59%
Palo	529	730	201	38.00%	Farley	1,287	1,500	213	16.55%
Elkhart	256	350	94	36.72%	Oyens	146	170	24	16.44%
Milo	778	1,050	272	34.96%	Moneta	43	50	7	16.26%
Robins	726	970	244	33.61%	Baldwin	198	230	32	16.16%
Macedonia	279	370	91	32.62%	Kirkman	95	110	15	15.79%
Maloy	38	50	12	31.58%	Coburg	52	60	8	15.38%
Husley	1,884	2,450	566	30.04%	Elk Run Heights	1,186	1,360	174	14.67%
Grimes	1,973	2,560	587	29.75%	Okoboji	559	640	81	14.49%
Bouton	139	180	41	29.50%	Osterdock	35	40	5	14.29%
Pleasant Hill	3,493	4,520	1,027	29.40%	Kent	70	80	10	14.29%
Fairfax	683	880	197	28.84%	Indianola	10,843	12,390	1,547	14.27%
Searsboro	134	170	36	26.87%	Runnells	377	430	53	14.06%
Norwalk	2,676	3,390	714	26.68%	Minden	483	550	67	13.87%
Bondurant	1,283	1,620	337	26.27%	Colo	868	920	112	13.86%
Polk City	1,658	2,070	412	24.85%	Slater	1,312	1,490	178	13.57%
Coralville	7,687	9,550	1,863	24.24%	Adel	2,846	3,230	384	13.49%
Alburnett	411	510	99	24.09%	Le Claire	2,899	3,290	391	13.49%
Harpers Ferry	258	320	62	24.03%	Glidden	1,076	1,220	144	13.38%
Craig	105	130	25	23.81%	Central Ia	106	120	14	13.21%
Carlisle	3,073	3,800	727	23.66%	Swisher	654	740	86	13.15%
Delaware	170	210	40	23.53%	Lucas	292	330	38	13.01%
Center Point	1,591	1,960	369	23.19%	Hartford	761	860	99	13.01%
Owasa	65	80	15	23.08%	Houghton	124	140	16	12.90%
Clive	6,064	7,460	1,396	23.02%	Carter Lake	3,438	3,880	442	12.86%
Littleport	106	130	24	22.64%	Barnes City	266	300	34	12.78%
Berkley	49	60	11	22.45%	Coggon	639	720	81	12.68%
Graf	98	120	22	22.45%	Ankeny	15,429	17,370	1,941	12.58%
Dundee	164	200	36	21.95%	Valeria	80	90	10	12.50%
Durango	41	50	9	21.95%	Rock Falls	196	220	24	12.24%
Pilot Mound	223	270	47	21.08%	Frederika	223	250	27	12.11%
Springville	1,165	1,410	245	21.03%	De Soto	1,035	1,160	125	12.08%
Urbandale	17,869	21,570	3,701	20.71%	Rickardsville	215	240	25	11.63%
West Des Moines	21,894	26,420	4,526	20.67%	Granger	619	690	71	11.47%
Lakeside	589	710	121	20.54%	Sloan	978	1,090	112	11.45%
St. Charles	507	610	103	20.32%	Roland	1,005	1,120	115	11.44%
Milville	50	60	10	20.00%	West Liberty	2,723	3,030	307	11.27%
Mount Vernon	3,325	3,990	665	20.00%	Millerton	72	80	8	11.11%
Exline	217	260	43	19.82%	Keomah	99	110	11	11.11%
Lone Tree	1,014	1,210	196	19.33%	Magnolia	207	230	23	11.11%
Walford	285	340	55	19.30%	Flanigan	171	190	19	11.11%
Buck Grove	84	100	16	19.05%	Wilton	2,502	2,780	278	11.11%
Hepburn	42	50	8	19.05%	Osceola	3,750	4,160	410	10.93%
Grant	143	170	27	18.88%	Lynnville	406	450	44	10.84%
Hills	547	650	103	18.83%	Braddyville	199	220	21	10.55%
					Batavia	525	580	55	10.48%

*Estimate

Source: U.S. Department of Commerce, Bureau of the Census, Current Population Reports, Series P26

Population Estimates (in 1,000s) by Age and Sex, Iowa, 1980-1988

Age	Estimates								Census
	July 1, 1988	July 1, 1987	July 1, 1986	July 1, 1985	July 1, 1984	July 1, 1983	July 1, 1982	July 1, 1981	April 1, 1980
TOTAL	2,834	2,823	2,840	2,873	2,893	2,899	2,905	2,918	2,914
Under 5 years	191	194	201	210	217	222	224	225	222
5 to 14 years	403	399	403	413	418	422	425	432	443
15 to 24 years	420	434	452	472	490	505	522	538	550
25 to 34 years	497	494	493	492	487	479	472	470	449
35 to 44 years	383	371	358	349	339	328	318	305	303
45 to 54 years	267	259	258	261	264	266	271	276	281
55 to 64 years	250	252	258	265	270	272	275	277	279
65 to 74 years	228	228	226	225	224	223	220	218	215
75 to 84 years	141	139	137	135	134	133	131	130	128
85 years and over	54	53	52	51	50	49	48	47	45
5 to 17 years	523	526	534	545	550	558	567	584	604
18 to 24 years	300	307	322	341	358	370	379	386	388
Median age	33.0	32.6	32.2	31.7	31.3	31.0	30.6	30.3	30.0
FEMALE	1,454	1,449	1,458	1,475	1,486	1,489	1,492	1,499	1,497
Under 5 years	93	95	98	103	106	109	109	110	108
5 to 14 years	196	194	196	201	203	206	207	211	216
15 to 24 years	208	215	224	235	244	251	260	268	274
25 to 34 years	244	242	242	242	239	236	233	232	222
35 to 44 years	193	186	180	176	171	166	161	154	153
45 to 54 years	136	132	132	133	135	136	138	141	144
55 to 64 years	130	132	135	139	141	143	144	146	147
65 to 74 years	126	126	125	125	125	124	123	122	121
75 to 84 years	88	87	86	85	85	84	83	82	81
85 years and over	39	39	38	37	36	35	34	33	32
5 to 17 years	255	256	260	265	268	272	277	285	295
18 to 24 years	150	154	161	171	179	185	190	194	195
Median age	34.4	34.0	33.6	33.1	32.7	32.4	32.0	31.7	31.4
MALE	1,380	1,374	1,382	1,398	1,407	1,410	1,412	1,419	1,416
Under 5 years	98	99	103	107	111	114	114	115	113
5 to 14 years	207	205	207	212	214	217	218	221	227
15 to 24 years	212	218	228	238	246	254	262	270	276
25 to 34 years	253	252	251	250	247	243	239	238	227
35 to 44 years	191	184	178	173	168	163	158	151	150
45 to 54 years	131	127	126	128	129	130	132	135	137
55 to 64 years	119	120	123	126	128	129	130	131	132
65 to 74 years	103	102	101	100	99	98	97	96	94
75 to 84 years	52	52	51	50	49	49	48	48	47
85 years and older	14	14	14	14	14	14	14	14	13
5 to 17 years	268	270	274	279	282	286	291	299	309
18 to 24 years	150	154	161	170	179	185	189	193	193
Median age	31.7	31.3	30.8	30.4	30.1	29.7	29.4	29.0	28.7

Source: State Population and Household Estimates, With Age, Sex, and Components of Change: 1981-1988, U.S. Bureau of the Census, Current Population Reports, Population Estimates and Projections, Series P-25, No. 1044, August 1989.

Population Estimates by Race and Hispanic Origin for Iowa, 1980 and 1985

	1980 Population	1985 Population	1980 % of Population	1985 % of Population
Black	42,600	45,200	1.5	1.6
Other races*	20,800	27,400	0.7	1.0
Hispanic	22,700	25,800	0.8	0.9

*Other races refers to that portion of the U.S. population that is neither white nor black. It primarily consists of Asians, Pacific Islanders, American Indians, Eskimos, and Aleutians.

Source: U.S. Bureau of the Census Series P-25, No. 1040-Rd-1

Iowa Population Projections by Year and County

COUNTY	1970	1980	1990	2000	2010	COUNTY	1970	1980	1990	2000	2010
Adair	9,400	9,490	8,750	8,640	8,550	Johnson	72,300	82,000	88,030	95,250	103,490
Adams	6,310	5,710	5,320	5,080	4,890	Jones	19,800	20,400	20,020	19,980	20,060
Allamakee	15,010	15,100	14,930	14,380	14,200	Keokuk	14,000	12,890	12,090	11,580	11,120
Appanoose	15,000	15,500	13,790	12,760	12,280	Kossuth	23,000	21,900	20,230	20,410	20,310
Audubon	9,600	8,500	7,680	6,710	6,240	Lee	43,200	43,090	40,570	38,390	36,770
Benton	22,910	23,700	22,670	22,530	22,510	Linn	163,400	169,790	170,480	175,700	183,780
Black Hawk	133,000	137,990	126,260	125,300	124,690	Louisia	10,700	12,100	12,540	13,860	15,330
Boone	26,600	26,210	25,220	23,280	22,120	Lucas	10,200	10,310	9,610	9,270	8,870
Bremer	22,700	24,900	24,360	25,650	26,230	Lyon	13,290	12,900	12,240	11,450	11,210
Buchanan	21,700	23,000	22,440	23,040	23,420	Madison	11,600	12,600	12,490	12,760	13,070
Buena Vista	20,700	20,800	20,900	21,390	21,740	Mahaska	22,200	22,800	22,350	22,510	22,730
Butler	16,900	17,700	16,490	15,770	15,260	Marion	26,400	29,690	30,770	34,860	38,630
Calhoun	14,300	13,500	11,900	11,360	10,860	Marshall	41,190	41,700	40,520	40,660	40,900
Carroll	22,900	23,000	22,910	23,360	23,660	Mills	11,900	13,400	13,660	14,230	14,920
Cass	17,000	17,000	15,950	15,470	15,110	Mitchell	13,100	12,290	11,620	11,290	10,860
Cedar	17,690	18,700	18,560	18,660	18,860	Monona	12,000	11,700	10,030	9,170	8,630
Cerro Gordo	49,210	48,500	49,660	50,110	50,040	Monroe	9,400	9,190	8,320	8,120	8,060
Cherokee	17,300	16,200	14,670	13,360	12,280	Montgomery	12,800	13,400	12,270	11,660	11,450
Chickasaw	14,910	15,500	15,030	15,850	16,300	Muscatine	37,300	40,600	42,630	46,490	49,220
Clarke	7,600	8,600	9,020	10,870	12,600	O'Brien	17,600	17,000	16,340	16,480	16,070
Clay	18,490	19,600	18,680	19,130	19,470	Osceola	8,510	8,400	7,730	7,090	6,860
Clayton	20,600	21,110	20,650	19,250	18,330	Page	18,600	18,990	16,870	15,120	14,350
Clinton	56,800	57,100	51,870	48,580	46,600	Palo Alto	13,400	12,710	11,900	11,330	10,900
Crawford	19,100	19,000	18,800	18,830	18,630	Plymouth	24,300	24,800	24,070	24,170	24,000
Dallas	26,100	29,500	30,330	31,790	33,390	Pocahontas	12,800	11,400	10,840	10,600	10,310
Davis	8,200	9,110	8,970	9,180	9,400	Polk	286,900	303,890	325,890	353,260	382,120
Decatur	9,700	9,790	8,800	8,570	8,370	Pottawattamie	87,200	86,700	88,100	87,740	87,990
Delaware	18,700	19,000	19,160	18,970	18,820	Poweshiek	18,790	19,290	18,940	20,090	21,020
Des Moines	46,800	46,300	44,970	42,300	40,420	Ringgold	6,400	6,110	5,510	5,000	4,730
Dickinson	12,600	15,600	15,920	18,630	20,320	Sac	15,600	14,090	12,330	11,330	10,610
Dubuque	90,790	93,800	91,380	90,500	89,790	Scott	143,000	160,290	159,470	170,410	176,900
Emmet	13,990	13,300	11,420	10,780	10,390	Shelby	15,600	15,000	14,170	13,420	13,010
Fayette	26,900	25,500	23,040	21,830	20,990	Stout	28,000	30,800	30,940	31,650	32,020
Floyd	20,090	19,600	18,180	16,670	15,740	Story	62,890	72,400	74,490	80,340	84,410
Franklin	13,200	13,000	12,210	11,880	11,580	Tama	20,200	19,400	18,650	18,320	18,050
Fremont	9,300	9,410	8,850	8,640	8,510	Taylor	8,800	8,400	7,490	6,680	6,210
Greene	12,710	12,100	10,870	9,970	9,300	Union	13,600	13,900	13,200	13,210	13,250
Grundy	14,100	14,400	13,050	13,010	12,940	Van Buren	8,600	8,600	8,230	7,780	7,640
Guthrie	12,300	12,000	11,440	10,730	10,330	Wapello	42,100	40,190	36,290	32,010	29,880
Hamilton	18,300	17,900	17,170	17,170	17,040	Warren	27,600	35,000	36,090	36,890	37,800
Hancock	13,490	13,810	13,290	12,930	12,610	Washington	18,900	20,200	19,890	20,050	20,300
Hardin	22,200	21,800	20,640	20,100	19,760	Wayne	8,400	8,200	7,370	6,950	6,820
Harrison	16,300	16,290	15,420	14,140	13,390	Webster	48,390	45,900	41,830	39,840	38,720
Henry	18,100	18,900	19,150	22,020	24,780	Winnebago	13,000	13,000	12,890	12,940	12,860
Howard	11,410	11,100	10,790	10,880	10,870	Winneshiek	21,790	21,890	22,180	22,800	23,170
Humboldt	12,600	12,300	11,540	11,390	11,270	Woodbury	103,200	101,000	96,650	90,440	86,180
Iaia	9,300	8,910	8,950	8,950	8,860	Worth	9,000	9,110	8,710	8,270	8,050
Iowa	15,400	15,390	14,900	14,620	14,420	Wright	17,300	16,310	15,260	15,030	14,700
Jackson	20,900	22,500	22,310	22,450	22,630						
Jasper	35,500	36,400	35,980	36,260	36,630	IOWA	2,828,820	2,916,150	2,865,320	2,901,480	2,949,610
Jefferson	15,800	16,300	17,310	20,900	23,890						

Source: Woods and Poole Economics, Inc., Washington, D.C.

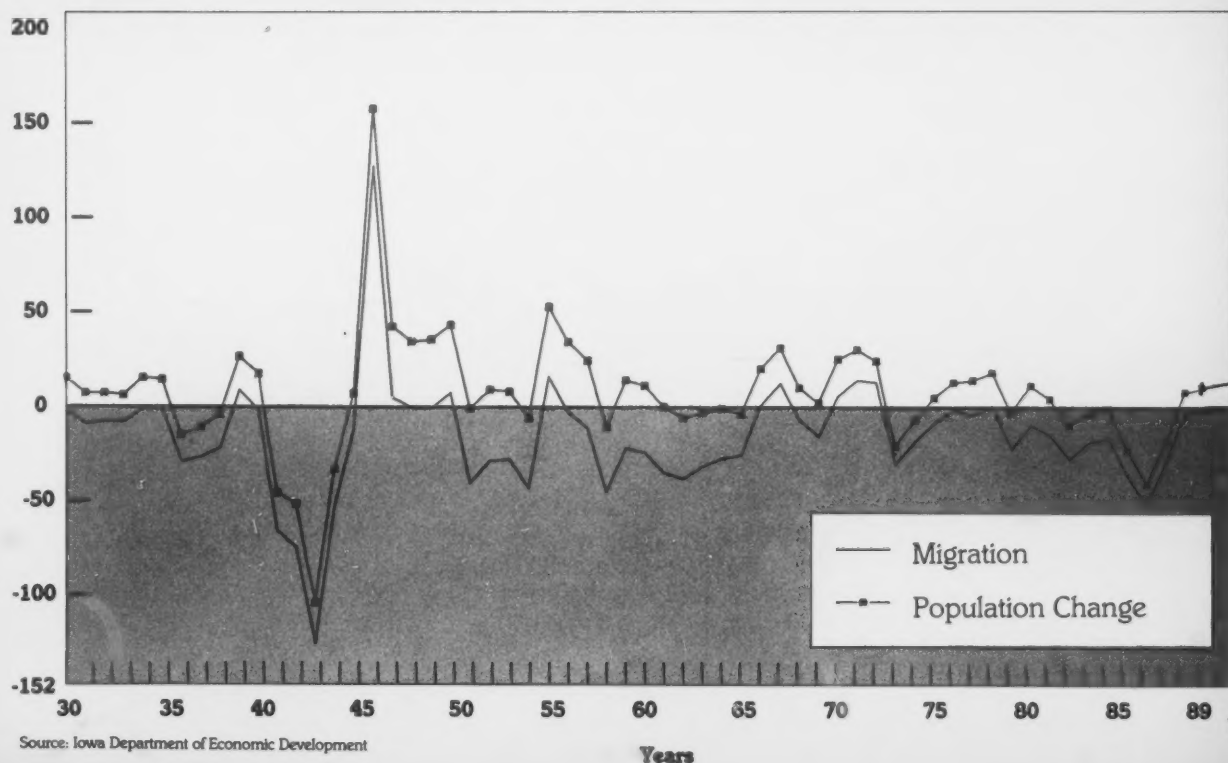
Iowa Population Trends 1960-89

Year	Census July 1 Pop.	Population Change from Year Ago	Actual Births	Actual Deaths	Natural Change (Births-Deaths)	Net Migration (Popch-Natch)
1960	2,756,000	11,000	64,050	28,741	35,309	(24,309)
1961	2,756,000	0	63,408	28,158	35,250	(35,250)
1962	2,750,000	(6,000)	61,003	28,632	32,371	(38,371)
1963	2,747,000	(3,000)	57,840	29,266	28,574	(31,574)
1964	2,746,000	(1,000)	55,443	29,157	26,286	(27,286)
1965	2,742,000	(4,000)	50,970	29,394	21,576	(25,576)
1966	2,762,000	20,000	48,641	29,611	19,030	970
1967	2,793,000	31,000	47,217	28,849	18,368	12,632
1968	2,803,000	10,000	46,737	29,852	16,885	(6,885)
1969	2,805,000	2,000	47,235	29,345	17,890	(15,890)
1970	2,830,000	25,000	48,406	29,356	19,050	5,950
1971	2,860,000	30,000	45,171	29,475	15,696	14,304
1972	2,884,000	24,000	40,860	29,907	10,953	13,047
1973	2,863,000	(21,000)	38,898	29,229	9,669	(30,669)
1974	2,856,000	(7,000)	40,179	28,730	11,449	(18,449)
1975	2,861,000	5,000	41,360	28,058	13,302	(8,302)
1976	2,874,000	13,000	41,570	27,825	13,745	(745)
1977	2,888,000	14,000	44,898	26,750	18,148	(4,148)
1978	2,906,000	18,000	44,559	27,417	17,142	858
1979	2,903,000	(3,000)	46,763	26,816	19,947	(22,947)
1980	2,914,000	11,000	47,797	27,096	20,701	(9,701)
1981	2,918,000	4,000	45,918	26,930	18,988	(14,988)
1982	2,908,000	(10,000)	44,716	26,852	17,864	(27,864)
1983	2,905,000	(3,000)	43,247	27,509	15,738	(18,738)
1984	2,904,000	(1,000)	42,360	26,972	15,388	(16,388)
1985	2,881,000	(23,000)	41,182	27,810	13,372	(36,372)
1986	2,840,000	(41,000)	38,748	27,021	11,727	(52,727)
1987	2,822,000	(18,000)	37,866	27,213	10,653	(28,653)
1988	2,830,000	8,000	38,070	27,851	10,219	(2,219)
1989	2,840,000	10,000	36,454	24,783	11,671	(1,671)

Source: U.S. Department of Commerce, Bureau of the Census.

Iowa Migration & Population Change, 1930-89

Thousands



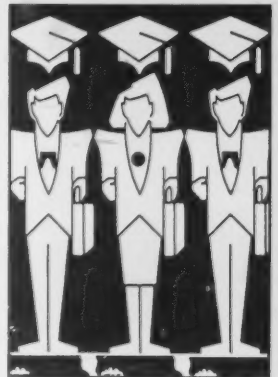
Iowa Population Projections by Age

YEAR	AGE GROUP																			
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+		
State Total																				
1980	222,555	209,252	231,171	276,039	272,157	244,741	207,639	162,179	141,799	134,670	145,445	145,536	133,597	118,065	97,370	75,517	52,928	45,491		
1985	227,521	207,980	205,743	223,443	241,052	256,560	226,608	196,674	157,908	133,910	128,381	134,517	132,783	121,623	101,756	79,403	55,055	50,857		
1990	221,458	220,396	200,024	197,279	197,937	236,307	239,959	213,456	190,786	153,169	127,949	118,918	120,491	124,600	102,903	83,831	59,295	56,566		
1995	207,252	223,285	216,796	195,225	177,187	197,661	226,855	230,108	208,107	188,521	149,786	121,624	107,522	115,853	107,662	86,083	64,832	66,096		
2000	189,771	214,850	220,689	211,701	174,883	176,803	192,197	218,773	224,009	205,299	184,656	143,123	110,458	103,645	100,601	90,761	67,441	76,680		
2005	182,419	193,654	209,683	217,190	189,814	173,822	174,281	187,914	214,774	222,165	201,801	177,566	131,152	107,107	90,730	85,776	72,316	86,148		
2010	184,075	187,310	195,265	208,318	195,269	188,248	173,323	172,126	186,149	214,788	219,759	195,507	164,149	127,666	94,444	78,043	69,066	96,108		
Male																				
1980	113,777	106,987	118,569	139,406	135,845	124,205	104,514	80,452	69,837	65,287	71,157	69,773	62,453	53,288	41,253	29,049	18,230	13,487		
1985	116,139	106,397	105,775	113,795	120,655	130,512	115,587	98,364	77,982	65,339	62,238	65,123	62,486	55,188	43,837	30,798	18,749	14,137		
1990	112,936	112,681	102,782	100,796	99,305	120,873	123,211	107,721	94,777	75,078	62,163	57,688	57,041	56,770	44,709	32,855	20,318	15,099		
1995	105,640	114,096	111,253	99,824	89,270	101,548	117,135	116,871	104,136	93,086	73,145	58,991	51,038	53,144	46,752	33,996	22,385	17,442		
2000	96,740	107,291	113,130	108,223	88,358	91,241	99,580	111,752	112,754	102,098	90,846	69,714	52,571	47,712	44,030	35,808	23,473	20,201		
2005	92,971	98,888	107,354	110,951	96,196	89,927	90,580	96,403	108,674	111,177	99,999	87,078	62,797	49,535	39,898	34,141	25,154	22,622		
2010	93,851	95,650	99,861	106,339	99,138	97,713	90,188	88,663	94,485	108,070	109,593	96,545	79,238	59,468	41,791	31,266	24,305	25,145		
Female																				
1980	108,778	102,265	112,602	136,633	136,312	120,536	103,125	81,727	71,962	69,383	74,288	75,763	71,144	64,777	56,117	46,468	34,698	32,004		
1985	111,382	101,583	99,968	109,648	120,397	126,048	111,021	98,310	79,926	68,571	66,143	69,394	70,297	66,435	57,919	48,605	36,306	36,720		
1990	108,522	107,715	97,242	96,483	98,632	115,434	116,748	105,735	96,009	78,091	65,786	61,230	63,450	67,830	58,194	50,976	38,977	41,467		
1995	101,612	109,189	105,543	95,401	87,917	96,113	109,720	113,237	103,971	95,435	76,641	62,633	56,484	62,709	60,910	52,087	42,447	48,654		
2000	93,031	102,760	107,559	103,478	86,525	85,562	92,617	107,021	111,255	103,201	93,810	73,409	57,887	55,933	56,571	54,953	43,968	56,479		
2005	89,448	94,766	102,329	106,239	93,618	83,895	83,701	91,511	106,100	110,988	101,802	90,488	68,355	57,572	50,832	51,635	47,162	63,526		
2010	90,224	91,660	95,404	101,979	96,131	90,535	83,135	83,463	91,664	106,718	110,166	98,962	84,911	68,198	52,653	46,777	44,761	70,963		
Black																				
1980	4,580	4,219	4,200	5,044	4,898	3,928	2,955	1,971	1,773	1,608	1,671	1,341	1,052	971	667	472	314	269		
1985	4,698	4,133	4,207	4,579	5,115	4,739	3,630	2,544	1,956	1,688	1,522	1,583	1,203	1,102	747	406	348	323		
1990	4,830	4,847	4,262	4,410	4,657	5,152	4,516	3,243	2,527	1,906	1,596	1,602	1,286	1,216	762	560	372	401		
1995	4,790	5,180	5,319	4,446	4,482	4,812	5,132	4,108	3,276	2,549	1,874	1,736	1,307	1,297	872	556	442	518		
2000	4,697	5,177	5,697	5,471	4,535	4,666	4,840	4,679	4,124	3,284	2,539	2,036	1,446	1,319	929	653	454	668		
2005	4,828	5,114	5,734	5,815	5,568	4,713	4,751	4,440	4,716	4,132	3,288	2,759	1,735	1,483	951	707	544	795		
2010	5,092	5,310	5,695	5,830	5,946	5,840	4,885	4,407	4,504	4,713	4,151	3,588	2,407	1,811	1,082	731	598	972		
Other races																				
1980	2,417	2,424	2,067	2,075	2,313	2,296	1,854	1,281	916	672	564	345	267	215	178	137	87	70		
1985	3,614	2,961	3,129	2,870	3,041	3,173	2,426	2,168	1,254	1,017	747	538	408	370	314	215	122	104		
1990	4,726	3,756	3,927	3,813	3,647	3,850	3,253	3,010	2,030	1,500	1,078	773	630	587	406	347	136	100		
1995	5,955	4,422	5,022	4,761	4,596	4,481	4,025	4,089	2,783	2,334	1,561	1,114	877	806	625	472	201	135		
2000	7,143	5,475	5,857	5,951	5,633	5,383	4,663	4,990	3,706	3,110	2,379	1,602	1,229	1,068	841	701	294	214		
2005	8,517	6,565	7,170	6,923	7,011	6,460	5,643	5,763	4,570	4,083	3,221	2,433	1,730	1,455	1,108	950	479	380		
2010	10,074	7,826	8,535	8,417	8,197	7,872	6,830	6,891	5,374	5,000	4,283	3,283	2,611	2,040	1,511	1,241	663	674		
Median Age of Population																				
1980	30.05																			
1985	32.03																			
1990	33.32																			
1995	35.02																			
2000	36.71																			
2010	39.15																			
Source: Woods & Poole Economics, Inc. Washington, D.C.																				

EDUCATION

Traditionally, Iowa's 431 public school districts have been in the forefront of new trends in school financing, teaching methods, administration and curriculum. This attitude is reinforced by the 226 parochial and private schools.

Iowa has three state universities. 62 public and private colleges, and 15 community colleges on 28 campuses.



PUBLIC SCHOOL ENROLLMENT

	1980-81	1985-86	1986-87	1987-88	1988-89	1989-90
Kindergarten	39,140	40,925	40,195	39,608	39,067	38,136
First	35,265	38,110	39,140	38,817	38,197	38,181
Second	34,004	35,387	36,095	37,512	37,623	37,088
Third	36,449	34,508	34,555	35,536	37,112	37,690
Fourth	39,672	32,977	33,904	34,301	35,491	37,298
Fifth	40,118	33,327	32,379	33,828	34,172	35,598
Sixth	38,935	32,038	32,778	32,340	33,747	34,654
Total K-6	263,583	247,272	249,046	251,942	255,409	258,645
Seventh	39,238	32,653	32,174	33,383	32,966	34,743
Eighth	40,120	35,136	32,088	31,815	33,186	33,143
Ninth	42,372	39,688	36,316	33,296	33,373	35,041
Total 7-9	121,730	107,477	100,578	98,494	99,525	102,927
Tenth	43,842	39,337	38,047	35,296	32,229	32,489
Eleventh	45,220	37,203	37,707	36,907	34,204	31,472
Twelfth	44,382	35,906	36,222	36,965	36,157	33,795
Total 10-12	133,444	112,446	111,976	109,168	102,590	97,756
Special Education (ungraded)	10,398	18,481	18,705	18,310	17,342	15,741
Grand total	529,155	485,676	480,305	477,914	474,866	475,069

Source: Iowa Department of Education

High School Graduation Rate*, 1987-88

Rank	State	Rate	Rank	State	Rate	Rank	State	Rate
1	Minnesota	90.6	18	Arkansas	77.5	35	Delaware	70.1
2	Wyoming	89.3	19	New Jersey	77.2	36	Rhode Island	69.4
3	North Dakota	88.4	20	Massachusetts	76.5	37	North Carolina	67.8
4	Nebraska	86.7	21	West Virginia	76.2	38	Tennessee	67.8
5	IOWA	86.4	22	Illinois	75.7	39	Kentucky	67.4
6	Montana	86.2	23	Maryland	74.5	40	South Carolina	66.9
7	Wisconsin	84.4	24	Missouri	74.4	41	Alaska	66.7
8	Ohio	82.8	25	Virginia	74.0	42	California	66.1
9	Kansas	82.1	26	Colorado	73.7	43	Texas	65.1
10	Utah	80.6	27	Indiana	73.7	44	Mississippi	64.8
11	Connecticut	80.5	28	Oregon	72.8	45	Arizona	64.4
12	South Dakota	79.7	29	New Hampshire	72.7	46	New York	62.9
13	Maine	79.3	30	Oklahoma	72.6	47	Georgia	62.5
14	Idaho	78.8	31	Nevada	72.1	48	Michigan	62.4
15	Pennsylvania	78.7	32	New Mexico	71.7	49	Louisiana	60.1
16	Vermont	78.0	33	Hawaii	70.8	50	Florida	58.6
17	Washington	77.8	34	Alabama	70.2		U.S. Average	71.1

*The graduation rate was calculated by dividing the number of public high school graduates by the public ninth grade enrollment four years earlier.

Source: U.S. Department of Education

Expenditures per Pupil in Public Elementary/Secondary Schools, Midwest

	1987		1988	
	Dollars	% of National Average	Dollars	% of National Average
IOWA	\$3,740	94	\$3,846	91
Illinois	\$3,980	100	\$4,217	100
Indiana	\$3,379	85	\$3,616	86
Kansas	\$4,137	104	\$4,262	101
Michigan	\$3,954	100	\$4,122	98
Minnesota	\$4,241	107	\$4,503	107
Missouri	\$3,345	84	\$3,566	85
Nebraska	\$3,437	87	\$3,641	86
North Dakota	\$3,209	81	\$3,353	80
Ohio	\$3,769	95	\$3,907	93
South Dakota	\$3,109	78	\$3,159	75
Wisconsin	\$4,701	118	\$4,997	119
U.S. Average	\$3,976	100	\$4,216	100

*Represents expenditures per pupil in average daily attendance.

Source: U.S. Bureau of Justice Statistics, National Education Association, Ranking of States, 1988

School Enrollment by County, Public and Nonpublic, 1989-1990

County	Public K-6 Total	Public 7-9 Total	Public 10-12 Total	Special Education	Public K-12 Total	Non-public Total	Grand Total All Schools
Adair	646	252	232	18	1,148	0	1,148
Adams	399	166	166	25	756	0	756
Allamakee	1,417	665	600	88	2,770	151	2,921
Appanoose	1,273	543	542	103	2,461	88	2,549
Audubon	679	244	256	5	1,184	0	1,184
Benton	2,374	996	795	132	4,297	127	4,424
Black Hawk	10,040	3,961	3,597	1,074	18,672	3,508	22,180
Boone	2,185	838	811	100	3,934	272	4,206
Bremer	2,946	1,216	1,271	196	5,632	268	5,900
Buchanan	1,800	734	659	145	3,338	260	3,598
Buena Vista	1,707	671	686	66	3,130	295	3,425
Butler	1,496	570	548	52	2,666	0	2,666
Calhoun	1,374	606	457	17	2,454	0	2,454
Carroll	1,712	586	531	97	2,926	1,884	4,810
Cass	1,822	676	659	81	3,238	0	3,238
Cedar	1,996	807	733	61	3,597	0	3,597
Cerro Gordo	3,978	1,543	1,357	322	7,200	753	7,953
Cherokee	1,538	595	588	46	2,767	0	2,767
Chickasaw	1,270	524	552	13	2,359	177	2,536
Clarke	937	354	337	6	1,634	0	1,634
Clay	1,920	808	630	10	3,368	155	3,523
Clayton	2,029	837	838	81	3,785	164	3,949
Clinton	5,088	2,064	1,844	359	9,355	569	9,924
Crawford	1,670	761	748	64	3,243	325	3,568
Dallas	3,715	1,339	1,274	89	6,417	225	6,642
Davis	737	309	293	26	1,365	0	1,365
Decatur	773	320	282	61	1,436	0	1,436
Delaware	1,922	735	694	102	3,453	333	3,786
Des Moines	4,193	1,609	1,604	327	7,733	368	8,101
Dickinson	1,537	636	557	58	2,788	0	2,788
Dubuque	5,637	2,620	3,034	728	12,019	6,418	18,437
Emmet	1,231	496	525	66	2,318	22	2,340
Fayette	2,312	1,002	955	127	4,396	314	4,710
Floyd	1,525	757	692	168	3,142	219	3,361
Franklin	978	349	435	47	1,809	52	1,861
Fremont	873	408	344	47	1,672	0	1,672
Greene	1,052	403	358	59	1,872	0	1,872
Grundy	1,228	396	627	16	2,267	74	2,341
Guthrie	1,315	565	495	49	2,424	0	2,424
Hamilton	1,584	708	638	198	3,128	97	3,225
Hancock	1,290	479	561	9	2,339	68	2,407
Hardin	2,122	938	774	76	3,910	0	3,910
Hamison	1,559	626	705	36	2,926	57	2,983
Henry	2,005	809	750	104	3,668	0	3,668
Howard	1,075	481	460	47	2,063	239	2,302

School Enrollment by County, Public and Nonpublic, 1989-1990 (continued)

County	Public K-6 Total	Public 7-9 Total	Public 10-12 Total	Special Education	Public K-12 Total	Non-public Total	Grand Total All Schools
Humboldt	1,056	415	419	9	1,899	132	2,031
Ida	885	336	341	7	1,569	0	1,569
Iowa	1,504	538	546	47	2,635	191	2,826
Jackson	1,824	842	798	124	3,588	595	4,183
Jasper	3,325	1,387	1,376	165	6,253	221	6,474
Jefferson	1,035	392	433	116	1,976	575	2,551
Johnson	6,430	2,248	2,025	236	10,939	633	11,572
Jones	1,647	750	777	130	3,304	225	3,529
Keokuk	1,402	513	485	36	2,436	0	2,436
Kossuth	1,535	575	486	53	2,649	967	3,616
Lee	3,359	1,327	1,299	302	6,287	979	7,266
Linn	14,951	5,862	6,250	1,346	28,409	2,850	31,259
Louisa	1,561	657	587	39	2,844	0	2,844
Lucas	918	351	327	5	1,601	0	1,601
Lyon	1,291	503	470	12	2,276	156	2,432
Madison	1,531	632	571	112	2,846	0	2,846
Mahaska	1,819	715	627	97	3,258	211	3,469
Marion	2,973	1,202	1,087	70	5,332	826	6,158
Marshall	3,458	1,494	1,441	358	6,751	367	7,118
Mills	1,381	610	575	1	2,567	0	2,567
Mitchell	940	387	460	20	1,807	201	2,008
Monona	952	424	411	38	1,825	68	1,893
Monroe	756	294	269	45	1,364	0	1,364
Montgomery	1,201	447	459	62	2,169	0	2,169
Muscatine	4,047	1,645	1,483	390	7,565	223	7,788
O'Brien	1,510	629	619	77	2,835	546	3,381
Osceola	482	205	200	48	935	73	1,008
Page	1,671	751	711	75	3,208	91	3,299
Palo Alto	1,039	477	467	52	2,035	276	2,311
Phymouth	2,277	925	819	60	4,081	1,014	5,095
Pocahontas	877	437	286	68	1,668	175	1,843
Polk	29,949	11,033	10,022	724	51,728	4,860	56,588
Pottawattamie	8,565	3,237	2,935	802	15,539	934	16,473
Poweshiek	1,607	624	650	138	3,019	21	3,040
Ringgold	557	191	232	68	1,048	0	1,048
Sac	1,345	530	454	97	2,426	54	2,480
Scott	14,718	5,941	5,515	1,503	27,677	2,638	30,315
Shelby	1,198	540	512	59	2,309	323	2,632
Storax	2,212	819	752	112	3,895	2,869	6,764
Story	5,673	2,118	1,881	247	9,919	197	10,116
Tama	1,783	886	551	134	3,354	0	3,354
Taylor	848	279	238	28	1,393	0	1,393
Union	1,228	581	543	100	2,452	115	2,567
Van Buren	789	323	280	27	1,419	0	1,419
Wapello	3,418	1,504	1,334	249	6,505	112	6,617
Warren	3,831	1,486	1,460	164	6,941	0	6,941
Washington	1,811	782	690	90	3,373	281	3,654
Wayne	654	291	260	1	1,206	0	1,206
Webster	3,367	1,179	1,153	276	5,975	1,205	7,180
Winnebago	1,565	552	627	100	2,844	13	2,857
Winneshiek	1,334	545	646	80	2,605	558	3,163
Woodbury	9,434	3,641	3,625	918	17,618	2,786	20,404
Worth	642	246	243	0	1,131	0	1,131
Wright	1,521	627	552	23	2,723	0	2,723
State Total	258,645	102,927	97,756	15,741	475,069	46,043	521,114

Source: Iowa Department of Education

HIGHER EDUCATION

Higher education in Iowa belies many of the stereotypes of farm states.

The Iowa Writer's Workshop, for example, is a nationally known program at the University of Iowa that competes with New York City as a mecca for aspiring authors. High-technology research programs are also prominent at the university and at Iowa State University.

Public higher education in Iowa operates on two levels. The Board of Regents runs the three public universities, and the State Board of Education governs community colleges, which in Iowa are called "area colleges."

Private higher education is also important in Iowa. Students of private colleges are eligible for student-aid grants from the state that are unusually high for the Midwestern region.

Faculty Members:

Full time members:

At public institutions	4128
At private institutions	2033

Proportion with tenure: (percent)

At public institutions	71.4
At private institutions	59.1

Proportion who are women: (percent)

At public institutions	25.4
At private institutions	26.3

Average pay of full-time professors: (dollars)

At public 4-yr institutions	\$37,162
At public 2-yr institutions	\$25,720
At private 4-yr institutions	\$28,451
At Private 2-yr institutions	\$22,632

Enrollment Highlights:

	(percent)
Women	50.8
Full-time	72.7
Minority	4.4
Foreign	4.0
10-yr change in total enrollment	25.8

Residence of New Students:

State residents make up 82% of all new college students enrolled in Iowa; 84% of all Iowa residents who attend college do so in their home state.

Copyright: 1989 Chronicle of Higher Education, Reprinted with permission.

The University of Iowa in Iowa City has 28,884 undergraduate, graduate, and professional students in ten colleges (Business Administration, Dentistry, Education, Engineering, Graduate, Law, Liberal Arts, Medicine, Nursing, and Pharmacy). As a major research institution and one of the nation's leading centers for advanced study, the UI offers 57 doctoral degree programs and world-class research programs ranging from space physics, bio-medicine and computer-aided design to global studies, writing, and the arts. University of Iowa Hospitals and clinics is the hub of a health care and health science complex that ranks among the finest in the world.

Iowa State University in Ames has 25,489 students in nine colleges: (Agriculture, Business Administration, Design, Education, Engineering, Family and Consumer Sciences, Sciences and Humanities, Veterinary Medicine, and Graduate). ISU is a national leader in the physical sciences, agriculture and engineering. The computer was invented at ISU in 1939, and the university has pioneered major advances in nuclear energy research and agricultural biotechnology. The Extension Service touches the lives of almost every Iowan.

The University of Northern Iowa, Cedar Falls, has 11,837 students. UNI has created a center for minorities in education in an effort to attract more minority students to its teacher-education program. While continuing to build on a strong heritage in teacher education, UNI also attracts students to its nationally recognized programs in business and the liberal arts. UNI offers a variety of out-reach programs to assist the state in strengthening economic development and improving the environment.

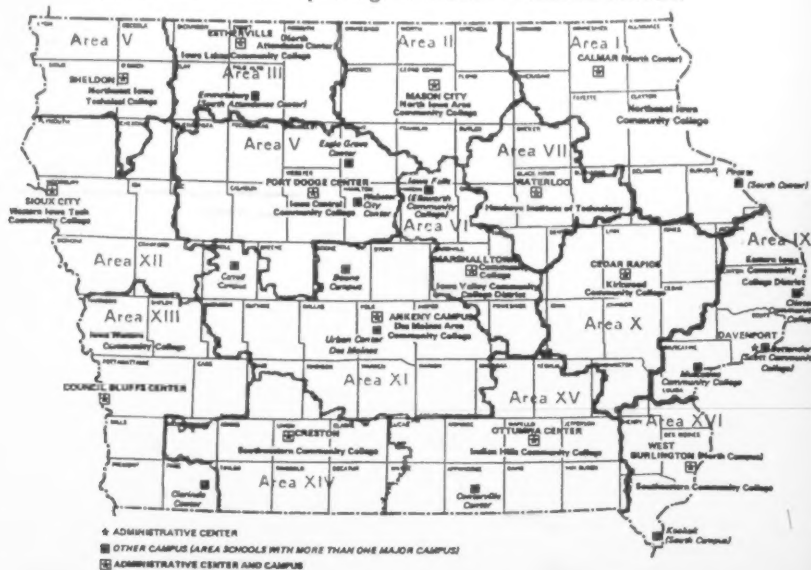
Number and Enrollment of Higher Education Schools

	Number	Enrollment			
		1975	1980	1987	1988
Public 4-yr Universities (Regents)	3	40,748	47,247	66,271	66,150
Independent 4-yr Colleges	28	29,571	33,338	39,125	40,635
Independent 2-yr Colleges	2	3,040	798	1,597	1,701
Area Community Colleges	15	30,784	35,477	43,780	44,938
Nursing and Professional Schools	21	1,632	1,243	3,230	3,225
Bible and Theological Colleges	5	921	812	577	568
Business Schools	3	1,562	1,651	1,236	1,302
Total	77	108,258	120,728	155,816	158,519
Source: Iowa College Aid Commission					

Iowa Area Colleges

Iowa's area colleges are public postsecondary two-year associate degree offering institutions that offer an exceptionally comprehensive curriculum including adult education courses, vocational and technical programs, arts and science programs, and customized training for business and industry. They are designed to provide maximum accessibility through an "open door" admissions policy, low tuition, and campuses and programs located within easy commuting distance.

(Iowa Area Community Colleges and Area Vocational Schools)



Area Community College Enrollment*

Institution	Total Students Degree Credit Enrollment				Residence		By Academic Load		Total New Freshmen		Other New Students	
	Fall 1988	Fall '89 Total	Fall '89 Men	Fall '89 Women	Iowa Residents	Non-Iowa Residents	Full Time	Part Time	1988	1989	1988	1989
Des Moines Area-Ankeny, Boone, and Carroll	9,861	10,338	4,238	6,100	10,173	165	4,615	5,723	4,568	4,850	549	656
Eastern Iowa-Clinton, Muscatine and Scott	5,374	5,577	2,242	3,335	5,073	504	2,799	2,778	2,203	2,187	N/A	N/A
Hawkeye Institute	1,853	1,972	1,031	941	1,945	27	1,599	373	727	740	134	185
Indian Hills-Ottumwa, Ottumwa Heights, Centerville	2,596	2,857	1,200	1,657	2,641	216	2,085	772	1,031	1,197	70	26
Iowa Central-Eagle Grove, Fort Dodge, Webster City	2,036	2,124	901	1,223	2,067	57	1,540	584	1,284	1,343	103	106
Iowa Lakes-Emmetsburg, Estherville	1,744	1,755	899	856	1,661	94	1,320	435	772	697	181	158
Iowa Valley-Ellsworth, Marshalltown	2,170	2,308	1,000	1,308	2,233	75	1,588	720	1,243	1,156	57	72
Iowa Western	2,797	3,213	1,401	1,812	2,841	372	1,623	1,590	966	1,121	146	258
Kirkwood	7,053	7,741	3,351	4,390	7,534	207	4,348	3,393	2,488	2,708	733	766
North Iowa Area	2,510	2,657	1,186	1,471	2,605	52	1,857	800	947	958	177	206
Northeast Iowa-Calmar, Peosta	1,141	1,539	539	1,000	1,468	71	1,112	427	499	742	175	235
Northwest Iowa Tech.	528	587	393	194	544	43	487	100	275	332	81	61
Southeastern-Burlington, Keokuk, Ft. Madison State Pen.	2,328	2,504	980	1,524	2,128	376	1,587	917	875	921	188	190
Southwestern	907	1,047	420	627	993	54	724	323	442	471	84	56
Western Iowa Tech	1,576	1,555	793	762	1,411	144	1,288	267	740	614	169	201
Total	44,474	47,774	20,574	27,200	45,317	2,457	28,572	19,202	19,060	20,037	2,847	3,176

*Excludes enrollments in Adult Education Division and Programs for Secondary School Students.

Source: Iowa College Aid Commission.

Tuition and Fees at "Flagship*" State Universities, Midwest

Fall, 1988
(Resident Undergraduate)

State	Amount(\$)	State	Amount(\$)
IOWA	\$1,706	Nebraska	\$1,703
Illinois	\$2,821	North Dakota	\$1,472
Indiana	\$2,038	Ohio	\$2,040
Kansas	\$1,379	South Dakota	\$1,804
Michigan	\$3,170	Wisconsin	\$1,857
Minnesota	\$2,162		
Missouri	\$1,774	50-State Average	\$1,824

*"Flagship" university status was accorded the main campus of the major state university.

Source: *Student Charges at Public Institutions, Annual Survey, 1988-89*, American Association of State Colleges and Universities and National Association of State Universities and Land Grant Colleges, February 1989.

ACT College Entrance Exam, Average Score*, 1988

Rank	State	Score	Rank	State	Score
1	IOWA	20.3	15	Illinois	18.9
2	Wisconsin	20.2	16	Utah	18.9
3	Minnesota	19.9	17	Michigan	18.8
4	Montana	19.9	18	North Dakota	18.7
5	Nebraska	19.8	19	Alaska	18.4
6	South Dakota	19.8	20	Kentucky	18.2
7	Colorado	19.7	21	Alabama	18.1
8	Wyoming	19.5	22	New Mexico	18.0
9	Arizona	19.3	23	Oklahoma	18.0
10	Idaho	19.3	24	Tennessee	18.0
11	Ohio	19.3	25	Arkansas	17.9
12	Kansas	19.1	26	West Virginia	17.6
13	Missouri	19.1	27	Louisiana	17.1
14	Nevada	19.0	28	Mississippi	16.2
				National Average	18.1

*In 28 states, the American College Testing program examination is the test taken by most college-bound high school students in the state.

Source: U.S. Department of Education, Office of Planning, Budget, and Evaluation.

Degrees Conferred by Discipline from Iowa Colleges, 1987-1988

Discipline	Regents		Independent 4-Year		Community Colleges		Independent 2-Yr/Other	
	Under-Graduate	Graduate Prof	Under-Graduate	Graduate Prof	Associate Degree	Graduate Prof	Associate Degree	Graduate Prof
Agribusiness and Agricultural Production	225	43	27	0	464	0	0	0
Agricultural Sciences	142	79	4	0	1	0	0	0
Renewable Natural Resources	39	6	3	0	26	0	0	0
Architecture and Environmental Design	161	43	5	0	0	0	0	0
Area and Ethnic Studies	20	16	12	0	0	0	0	0
Business and Management	2,290	299	2,028	215	204	0	380	0
Business (Administrative Support)	22	0	24	0	1,531	0	566	0
Marketing and Distribution	44	0	0	0	332	0	148	0
Communications	654	66	317	26	8	0	32	0
Communications Technologies	0	0	0	0	11	0	0	0
Computer and Information Sciences	238	53	266	15	99	0	41	0
Consumer, Personal and Miscellaneous Services	0	0	0	0	46	0	0	0
Education	1,169	755	980	288	17	0	11	0
Engineering	1,075	301	28	0	6	0	0	0
Engineering and Engineering Related Technologies	84	9	13	0	610	0	0	0
Foreign Languages	98	41	137	1	0	0	0	0
Allied Health	111	34	15	4	1,266	0	105	0
Health Sciences	323	468	366	39	778	0	122	744
Home Economics	251	18	14	0	0	0	0	0
Vocational Home Economics	20	20	6	0	400	0	0	0
Industrial Arts	0	0	2	0	0	0	0	0
Law	0	261	10	95	69	0	0	0
Letters	349	145	259	15	0	0	0	0
Liberal/General Studies	451	6	202	4	2213	0	107	0
Library and Archival Sciences	0	60	2	0	0	0	0	0
Life Sciences	255	134	350	7	0	0	0	0
Mathematics	122	134	136	0	0	0	0	0
Military Science	1	0	0	0	0	0	0	0
Multi/Interdisciplinary Studies	69	1	63	14	0	0	73	0
Parks and Recreation	119	10	19	0	0	0	0	0
Leisure and Recreational Activities	0	0	3	0	0	0	0	0
Philosophy and Religion	25	11	87	0	0	0	0	0
Theology	0	0	12	13	0	0	33	10
Physical Sciences	134	136	156	0	0	0	0	0
Science Technologies	0	0	0	0	21	0	0	0
Psychology	287	30	293	15	0	0	0	0
Protective Services	0	3	58	0	195	0	0	0
Public Affairs	159	143	131	16	69	0	0	0
Social Sciences	564	112	629	0	0	0	0	0
Construction Trades	0	0	0	0	198	0	0	0
Mechanics and Repairers	0	0	0	0	920	0	0	0
Precision Production	0	0	13	0	555	0	0	0
Transportation and Material Moving	0	0	13	0	364	0	0	0
Visual and Performing Arts	309	146	285	5	0	0	0	0
TOTAL	9,810	3,583	6,968	772	10,403	0	1618	754
Source: Iowa College Aid Commission								

QUALITY OF LIFE

To some, Iowa's quality of life is a well-kept secret. But those who live here treasure Iowa's rare ability to pursue excellence while preserving peace of mind.

Iowa is unsurpassed in education and productivity, has moderate living costs, first-class health care, a low crime rate, good air and water, affordable housing, and excellent recreation and cultural offerings. . . all within easy access. In Iowa you'll have the good life and the time to enjoy it.

Iowa has clean, uncongested cities and towns within a short distance from the state's two major research universities. Iowa offers unparalleled peace of mind. There is less traffic, less noise, less crime. People still enjoy strolls through tree-shaded neighborhoods. Even at night, Iowa's communities are safe and sound, and Iowa's people are noticeably warm and welcoming.

Iowa is truly a wonderful place to live and do business.



CRIME

Crime Rates*, Iowa and Other Selected States, 1988

State	Index Rate*	Violent Crime Rate	Property Crime Rate	Murder and Non-negligent Manslaughter
United States	5,664.0	637.0	5,027.0	8.3
IOWA	4,076.7	256.8	3,819.8	1.7
Alabama	4,561.7	558.6	4,003.1	9.9
Arizona	7,471.3	610.1	6,861.2	8.5
California	6,635.5	929.8	5,705.7	10.4
District of Columbia	9,914.7	1,921.6	7,993.1	59.5
Florida	8,937.6	1,117.7	7,819.9	11.4
Illinois	5,620.9	810.4	4,810.4	8.6
Indiana	4,150.0	380.0	3,770.0	6.4
Kansas	4,879.9	365.2	4,514.7	3.4
Minnesota	4,314.7	290.1	4,024.7	2.9
Missouri	4,844.7	552.5	4,292.2	8.0
Nebraska	4,140.0	273.2	3,866.8	3.6
Nevada	6,453.1	780.7	5,672.5	10.5
New Jersey	5,295.3	582.8	4,712.5	5.3
New York	6,309.8	1,097.3	5,212.0	12.5
North Dakota	2,728.1	59.1	2,668.9	1.8
South Dakota	2,581.0	113.7	2,467.3	3.1
Texas	8,017.7	652.6	7,365.1	12.1
Washington	7,113.0	466.4	6,646.6	5.7
Wisconsin	3,972.0	214.4	3,757.6	3.0

*Rates per 100,000 population.

Source: Iowa Uniform Crime Reports, 1988, Iowa Department of Public Safety, Research & Development Bureau.

Comparison of Crime Rates, Iowa-West North Central Region*-U.S., 1988

(Per 100,000 population)

Offense	Iowa	Region	U.S. Rate	Iowa Rate as % of Region Rate	Iowa Rate as % of U.S. Rate	Iowa Rank in U.S.
Index total**	4,076.7	4,364.5	5,664.2	93.4%	72.0%	39
Violent crime	256.8	354.0	637.2	72.5%	40.3%	40
Property crime	3,820.8	4,010.5	5,027.1	95.3%	76.0%	36
Murder	1.7	4.3	8.4	39.5%	20.2%	50
Rape	15.7	26.6	37.6	59.0%	41.8%	49
Robbery	39.9	95.9	220.9	41.6%	18.1%	41
Assault	199.5	227.2	370.2	87.8%	53.9%	35
Burglary	854.4	958.9	1,309.2	89.1%	65.3%	37
Larceny	2,804.2	2,758.2	3,134.9	101.7%	89.5%	27
Motor vehicle theft	162.2	293.3	582.9	55.3%	27.8%	46
Arson***	31.5	N/A	51.0	N/A	61.8%	N/A

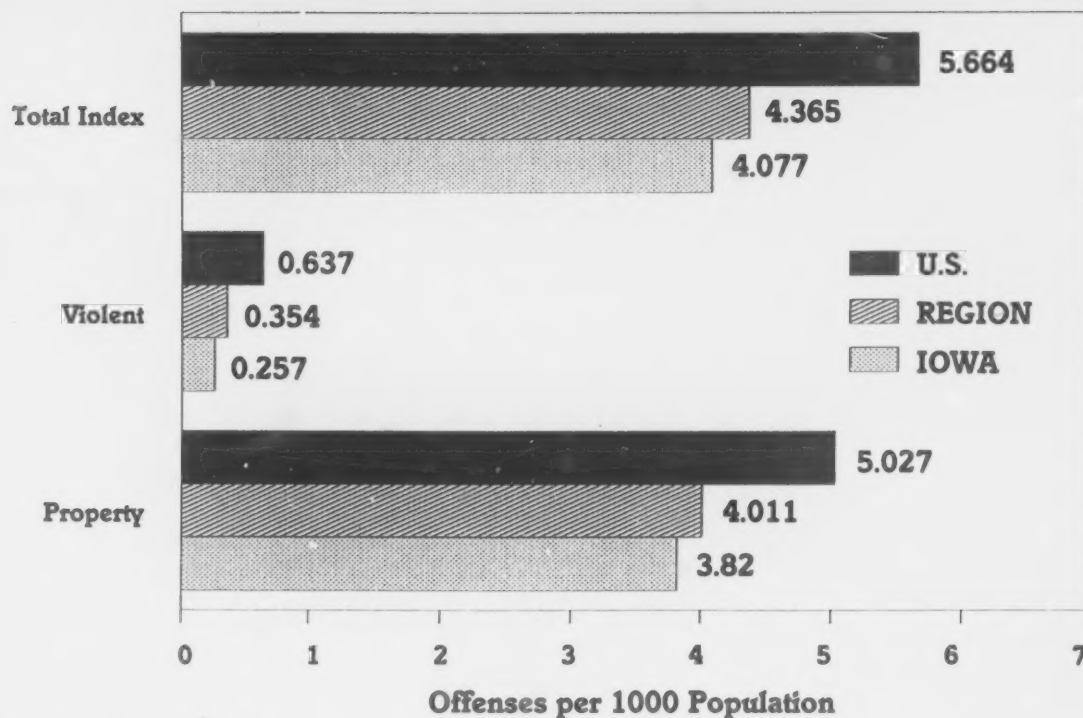
*West North Central Region includes: Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota.

**Because of rounding, offenses may not add up to the totals.

***Arson not included in Index total or Property total.

Source: Iowa Uniform Crime Reports 1988, Iowa Department of Public Safety, Research & Development Bureau.

Comparison of Crime Rates, 1988



* Region = West North Central

Source: Iowa Uniform Crime Reports, 1988 Iowa Department of Public Safety, Research & Development Bureau

Crimes Reported in Iowa Counties, 1988

County	Total Crime Rate*	Violent Crime Rate*	Property Crime Rate*	Total Crimes	Violent Crimes				Total Violent	Property Crimes			
					Murder	Rape	Robbery	Aggravated assault		Burglary	Larceny	Motor Vehicle Theft	Total Property
Adair	1,082.6	11.8	1,070.8	92	0	1	0	0	1	30	57	4	91
Adams	1,555.6	0.0	1,555.8	84	0	0	0	0	0	22	58	4	84
Allamakee	1,306.9	6.7	1,300.3	196	0	0	0	1	1	22	160	13	195
Appanoose	3,064.0	112.7	2,951.3	435	0	1	0	15	16	95	305	19	419
Audubon	1,358.0	51.3	1,333.7	108	0	0	0	4	4	24	75	5	104
Benton	1,969.7	30.7	1,939.0	449	0	0	2	5	7	131	297	14	442
Black Hawk	5,361.2	309.3	5,052.0	6,743	3	35	129	222	389	1,747	4,443	164	6,354
Boone	2,592.7	86.3	2,506.4	661	0	2	0	20	22	120	501	18	639
Bremer	1,689.7	315.0	1,374.8	397	0	1	5	68	74	76	244	3	323
Buchanan	2,865.8	107.0	2,758.8	616	0	2	3	18	23	237	331	25	593
Buena Vista	2,181.8	132.4	2,049.4	445	0	0	1	26	27	64	343	11	418
Butler	835.5	18.3	817.2	137	0	0	1	2	3	40	84	10	134
Calhoun	1,223.4	8.3	1,215.2	148	0	0	0	1	1	37	102	8	147
Carroll	1,924.2	40.4	1,883.8	429	1	2	0	6	9	50	349	21	420
Cass	2,120.7	44.3	2,076.3	335	1	2	0	4	7	65	252	11	328
Cedar	1,351.9	175.9	1,176.1	246	0	1	1	30	32	51	155	8	214
Cerro Gordo	5,978.4	330.6	5,647.7	2,875	2	6	8	143	159	476	2,123	117	2,716
Cherokee	1,753.7	60.0	1,693.7	263	0	1	0	8	9	44	200	10	254
Chickasaw	1,233.1	27.4	1,205.7	180	0	0	0	4	4	24	146	6	176
Clarke	2,570.4	81.4	2,489.0	221	0	2	0	5	7	55	144	15	214
Clay	3,764.9	106.8	3,658.1	670	0	0	0	19	19	117	517	17	651
Clayton	1,412.0	93.2	1,318.9	288	1	0	0	18	19	55	200	14	269
Clinton	4,968.9	115.3	4,853.6	2,628	2	4	17	38	61	457	1,987	123	2,567
Crawford	2,864.8	65.2	2,799.5	527	0	0	0	12	12	77	417	21	515
Dallas	1,936.6	87.3	1,849.4	577	1	1	3	21	26	125	409	17	551
Davis	1,466.2	22.7	1,443.5	129	0	0	0	2	2	48	73	6	127
Decatur	2,000.5	126.5	1,874.0	174	0	0	1	10	11	34	100	9	163
Delaware	1,730.7	53.9	1,676.8	321	0	0	0	10	10	99	205	7	311
Des Moines	5,313.3	472.5	4,840.4	2,348	0	6	10	193	209	479	1,555	105	2,139
Dickinson	2,993.9	13.3	2,980.6	449	0	0	0	2	2	77	347	23	447
Dubuque	3,341.4	296.6	3,044.7	3,030	1	8	16	244	269	453	2,173	135	2,761
Emmet	2,578.0	51.7	2,526.3	299	0	0	0	6	6	73	206	14	293
Fayette	1,987.4	147.2	1,840.2	459	0	0	0	34	34	123	283	19	425
Floyd	1,585.0	251.4	1,333.6	290	0	0	2	44	46	39	199	6	244
Franklin	2,033.3	180.4	1,853.0	248	0	0	0	22	22	44	175	7	226
Fremont	2,674.8	89.9	2,584.9	238	0	0	0	8	8	97	121	12	230
Greene	1,523.2	9.2	1,514.0	166	0	0	0	1	1	33	122	10	165
Grundy	954.9	7.6	946.8	125	0	0	0	1	1	31	90	3	124
Guthrie	1,175.6	17.5	1,158.1	134	0	0	0	2	2	34	93	5	132
Hamilton	2,538.6	397.8	2,140.9	434	0	1	1	66	68	51	296	19	366
Hancock	1,686.4	46.4	1,640.0	218	0	0	1	5	6	40	161	11	212
Hardin	1,877.2	29.6	1,847.7	381	1	1	2	2	6	57	301	17	375
Harrison	1,386.3	19.0	1,367.3	219	0	0	0	3	3	37	171	8	216
Henry	1,979.4	163.2	1,816.2	376	0	0	0	31	31	57	276	12	345
Howard	1,434.2	47.2	1,387.1	152	0	0	0	5	5	15	126	6	147
Humboldt	1,646.3	44.3	1,602.1	186	0	0	0	5	5	34	135	12	161
Ida	2,302.9	46.5	2,256.3	198	0	1	0	3	4	22	167	5	194
Iowa	536.5	6.6	529.9	81	0	0	1	0	1	15	63	2	80
Jackson	1,991.2	115.2	1,876.0	432	0	1	0	24	25	65	327	15	407
Jasper	2,864.1	80.8	2,783.4	1,028	2	3	1	23	29	303	667	29	999
Jefferson	2,776.3	6.1	2,770.2	458	0	0	0	1	1	81	352	24	457
Johnson	5,998.3	516.5	5,481.4	5,144	1	54	30	358	443	937	3,580	184	4,701
Jones	1,442.5	45.2	1,397.3	287	0	0	0	9	9	91	172	15	278
Keokuk	1,242.0	0.0	1,242.0	149	0	0	0	0	0	30	113	6	149
Kossuth	1,266.6	10.1	1,256.5	252	0	0	0	2	2	50	195	5	250
Lee	3,996.0	296.6	3,699.3	1,630	0	8	6	107	121	361	1,088	60	1,509
Linn	5,450.4	202.9	5,247.6	9,242	2	12	89	241	344	1,772	6,716	410	8,898
Louisa	3,303.4	84.1	3,219.3	393	0	0	0	10	10	135	229	19	383
Lucas	2,500.5	10.4	2,490.1	240	0	0	0	1	1	68	163	8	239
Lyon	561.1	0.0	561.1	69	0	0	0	0	0	14	55	0	69
Madison	2,194.1	88.7	2,105.3	272	0	0	0	11	11	78	173	10	261
Mahaska	3,166.6	246.7	2,919.9	706	1	4	1	49	55	135	494	22	651
Marion	2,197.1	226.7	1,970.4	659	0	2	0	66	68	141	439	11	591
Marshall	3,772.1	369.4	3,402.7	1,501	0	4	7	136	147	366	949	39	1,354
Mills	2,314.0	126.9	2,187.1	310	0	1	1	15	17	74	204	15	293
Mitchell	1,353.7	43.1	1,310.6	157	0	1	0	4	5	34	107	11	152
Monona	2,648.1	47.6	2,600.5	278	0	0	0	5	5	108	150	15	273
Monroe	2,635.9	164.7	2,471.2	224	0	0	2	12	14	53	153	4	210
Montgomery	4,497.9	48.8	4,449.2	553	1	1	0	4	6	114	411	22	547
Muscatine	3,187.1	84.8	3,102.4	1,316	1	3	6	25	35	234	979	68	1,281
Osceola	1,282.4	76.9	1,205.4	100	0	1	0	5	6	34	57	3	94
O'Brien	1,811.7	44.0	1,767.6	288	0	0	0	7	7	55	208	18	261
Page	2,515.0	28.9	2,486.1	435	0	2	0	3	5	64	356	10	430

Crimes Reported in Iowa Counties, 1988 (continued)

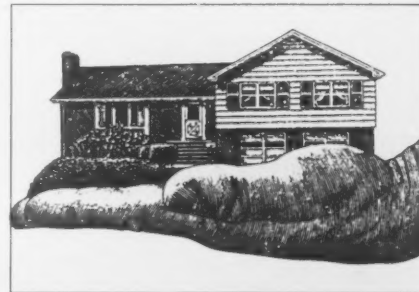
County	Total Crime Rate*	Violent Crime Rate*	Property Crime Rate*	Total Crimes	Violent Crimes					Property Crimes			
					Murder	Rape	Robbery	Aggravated assault	Total Violent	Burglary	Larceny	Motor Vehicle Theft	Total Property
Palo Alto	2,327.8	123.9	2,203.9	263	0	1	0	13	14	75	169	5	249
Phymouth	1,719.4	49.6	1,669.8	416	0	3	0	9	12	73	314	17	404
Pocahontas	924.7	28.3	896.4	98	0	0	1	2	3	34	57	4	95
Polk	7,979.3	578.3	7,400.8	25,472	14	82	426	1,324	1,846	4,335	18,242	1,049	23,626
Pottawattamie	5,848.4	371.5	5,476.8	5,163	3	23	72	230	328	1,303	3,178	354	4,835
Poweshiek	1,290.6	21.5	1,269.1	240	0	1	0	3	4	41	193	2	236
Ringgold	1,018.4	0.0	1,018.4	56	0	0	0	0	0	56	0	0	56
Sac	836.1	7.8	828.3	107	0	0	0	1	1	26	76	4	106
Scott	5,753.9	617.7	5,136.3	8,980	3	77	141	743	964	2,047	5,726	243	8,016
Shelby	1,632.3	97.2	1,535.0	235	0	1	1	12	14	37	172	12	221
Sioux	764.3	29.9	734.4	230	0	1	0	8	9	27	184	10	221
Story	3,976.3	160.1	3,816.2	2,856	0	11	8	96	115	509	2,141	91	2,741
Tama	1,692.3	118.9	1,573.3	313	0	0	0	22	22	63	217	11	291
Taylor	1,737.3	171.1	1,566.2	132	0	1	0	12	13	43	69	7	119
Union	3,346.9	84.6	3,262.3	435	0	0	2	9	11	101	305	17	424
Van Buren	1,580.6	74.1	1,506.5	126	0	0	0	6	6	0	121	1	122
Wapello	5,304.1	150.2	5,153.9	1,978	1	5	11	39	56	724	1,118	80	1,922
Warren	2,683.9	102.8	2,581.1	966	0	3	2	32	37	281	610	38	929
Washington	2,305.0	142.2	2,162.2	454	1	1	1	25	28	115	286	25	426
Wayne	1,274.3	0.0	1,274.4	93	0	0	0	0	0	15	75	3	93
Webster	5,167.0	327.1	4,839.9	2,180	2	3	9	124	138	454	1,483	105	2,042
Winnebago	1,682.9	87.3	1,595.6	212	0	2	0	9	11	25	172	4	201
Winneshiek	1,571.8	27.7	1,544.1	341	0	0	1	5	6	67	254	14	335
Woodbury	7,442.7	581.5	6,861.2	7,270	1	57	108	402	568	1,972	4,397	333	6,702
Worth	2,092.4	46.0	2,046.4	182	0	0	1	3	4	85	88	5	178
Wright	1,466.5	121.6	1,344.9	217	0	0	1	17	18	53	138	8	212
Total	4,077.7	256.8	3,820.8	115,545	47	446	1,132	5,653	7,278	24,211	79,460	4,596	108,267
*Rate per 100,000 population													
Source: Iowa Uniform Crime Reports 1988, Iowa Department of Public Safety													

HOUSING

Iowa Housing Facts

In 1989...

- 20,089 single family homes and condominiums were sold.
- The median sales price for 1989 was \$49,365, up 3.6% from 1988.
- The median days on the market was 61 days, a decrease of 10% compared to 1988.
- The types of financing most commonly used through the state were conventional, FHA, cash, and seller financing.



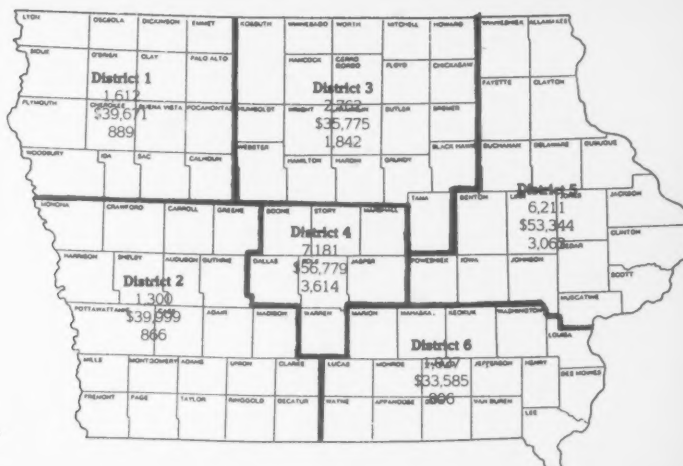
Iowa Residential Sales Data, 1988-1989

Board	Median Price		Sales 1989	Sales 1988	Average Listing 1989	Days on Market 1989
	1989	1988				
Ames	\$61,339	\$59,276	532	508	282	44
Bluegrass	24,354	24,820	197	172	216	96
Boone County	30,322	30,570	242	202	160	65
Burlington	38,417	36,380	415	399	293	52
Carroll County	44,629	45,516	173	152	286	73
Cedar Rapids	54,006	51,471	2,235	2,418	1,490	NA
Cherokee	23,683	26,249	98	93	NA	97
DeWitt	37,096	38,749	104	109	78	90
Dubuque	48,948	45,837	819	792	530	45
Fort Dodge	33,453	33,551	535	465	453	105
Gr. Council Bluffs	42,196	39,833	932	833	364	52
Gr. Davenport	51,764	50,751	2,024	2,010	1,020	44
Gr. Des Moines	58,478	55,967	5,735	6,042	2,730	54
Gr. Mason City	40,448	37,529	482	481	416	96
Gr. Sioux City	41,053	38,246	1,377	1,401	863	82
Iowa City	67,549	65,802	778	895*	436	64
Marshalltown	43,552	39,089	412	403	224	64
Muscatine	44,387	44,875	351	398*	NA	106
Newton	44,305	36,036	261	220	222	45
Oskaloosa	37,023	28,151	169	155	167	97
Ottumwa	26,849	25,158	407	447	267	55
Storm Lake	38,635	36,963	130	188	NA	120
Waterloo/Cedar Falls	35,501	33,782	1,686	1,608	994	50
State	\$49,365	\$47,644	20,089	20,129	11,424	N/A

*Sales Reported Incomplete

Source: Housing Trends, 1989 Year End Summary, Iowa Association of Realtors.

1989 Regional Totals: Sales, Median Price, Average Listings



Source: Housing Trends, 1989 Year End Summary, Iowa Association of Realtors.

Median Sales Price of Existing Single-Family Homes

FOR 83 METROPOLITAN AREAS* (in Thousands of Dollars)

Metropolitan Area*	Year				1989 Rank Order	RANK	
	1986	1987	1988	1989			
Akron, OH	\$56.2	\$57.1	\$59.9	\$64.5	Peoria, IL	\$46.8	1
Albany/Troy, NY	72.7	86.4	92.2	104.9	Spokane, WA	52.4	2
Albuquerque, NM	81.6	82.6	80.4	83.0	Oklahoma City, OK	53.5	3
Anaheim/Santa Ana, CA	147.7	167.3	206.9	245.3	Mobile, AL	56.7	4
Atlanta, GA	N/A	N/A	N/A	84.0	Des Moines, IA	57.5	5
Baltimore, MD	74.0	81.1	88.7	96.3	Louisville, KY	58.4	6
Baton Rouge, LA	70.9	67.8	64.7	63.8	Lansing, MI	59.8	7
Birmingham, AL	68.3	71.6	75.7	78.5	Omaha, NE	60.6	8
Boston, MA	159.2	177.2	181.2	181.9	Toledo, OH	60.8	9
Buffalo/Niagara Falls, NY	52.4	56.7	65.6	72.5	Wichita, KS	62.0	10
Charleston, SC	N/A	72.7	73.1	74.5	Tulsa, OK	62.6	11
Charlotte, NC	N/A	N/A	N/A	88.1	El Paso, TX	63.1	12
Chattanooga, TN	55.3	59.0	63.5	65.4	Daytona Beach, FL	63.4	13
Chicago, IL	86.1	90.8	98.9	107.0	Little Rock, AR	63.7	14
Cincinnati, OH	N/A	66.1	69.7	75.8	Baton Rouge, LA	6.8	15
Cleveland, OH	66.9	68.1	69.2	75.2	Grand Rapids, MI	64.2	16
Columbia, SC	67.2	68.4	69.7	73.9	San Antonio, TX	64.2	17
Columbus, OH	65.5	68.7	72.6	77.9	Akron, OH	64.5	18
Corpus Christi, TX	66.0	65.9	64.9	64.9	Corpus Christi, TX	64.9	19
Dallas, TX	93.2	90.8	90.8	92.4	Chattanooga, TN	65.4	20
Daytona Beach, FL	57.7	60.2	62.6	63.4	Pittsburgh, PA	65.8	21
Dayton/Springfield, OH	57.3	59.4	63.3	68.7	Houston, TX	66.7	22
Denver, CO	86.4	88.9	81.8	85.5	Greenville, SC	68.6	23
Des Moines, IA	55.9	55.6	55.8	57.5	Dayton, OH	68.7	24
Detroit, MI	58.1	65.6	73.1	73.7	Montgomery, AL	68.8	25
El Paso, TX	59.0	59.2	59.6	63.1	Jacksonville, FL	69.3	26
Ft. Lauderdale, FL	77.7	79.6	81.1	83.9	Salt Lake City, UT	69.4	27
Ft. Worth, TX	87.9	80.0	73.3	79.9	Portland, OR	70.1	28
Grand Rapids, MI	50.4	53.5	57.9	64.2	New Orleans, LA	70.6	29
Greenville/Spartanburg, SC	64.3	64.2	65.9	68.6	Knoxville, TN	71.1	30
Hartford, CT	129.0	157.4	167.6	165.9	Indianapolis, IN	71.2	31
Honolulu, HI	172.0	186.0	215.1	267.6	Kansas City, MO/KS	71.6	32
Houston, TX	69.9	65.9	61.8	66.7	Tampa, FL	71.9	33
Indianapolis, IN	59.0	62.5	66.1	71.2	Buffalo, NY	72.5	34
Jacksonville, FL	62.8	65.1	67.7	69.3	Detroit, MI	73.7	35
Kansas City, MO/KS	65.4	69.8	70.5	71.6	Columbia, SC	73.9	36
Knoxville, TN	60.3	65.4	67.0	71.1	Charleston, SC	74.5	37
Lansing, MI	52.4	54.5	56.6	59.8	Cleveland, OH	75.2	38
Las Vegas, NV	77.5	77.0	78.8	85.7	Cincinnati, OH	75.8	39
Lexington/Fayette, KY	67.7	72.5	73.5	77.0	Madison, WI	76.5	40
Little Rock, AR	63.2	63.1	63.9	63.7	St. Louis, MO	76.9	41
Los Angeles Area, CA	128.8	147.7	179.4	215.5	Lexington, KY	77.0	42
Louisville, KY	51.7	51.7	54.5	58.4	Columbus, OH	77.9	43
Madison, WI	66.4	69.2	72.0	76.5	Memphis, TN	78.1	44
Memphis, TN	70.6	75.0	76.3	78.1	Birmingham, AL	78.5	45
Miami/Hialeah, FL	81.1	81.1	82.9	86.9	Rochester, NY	78.5	46
Milwaukee, WI	69.9	70.5	74.5	79.6	Phoenix, AZ	78.8	47
Minneapolis/St. Paul, MN	77.9	80.5	85.2	87.2	Syracuse, NY	79.3	48
Mobile, AL	52.9	55.6	53.0	56.7	Milwaukee, WI	79.6	49
Montgomery, AL	61.0	64.8	64.5	68.8	Orlando, FL	79.8	50
Nashville/Davidson, TN	70.8	75.5	77.6	79.9	Ft. Worth, TX	79.9	51
New Haven/Meridan, CT	N/A	156.9	169.4	163.4	Nashville, TN	79.9	52
New Orleans, LA	N/A	N/A	73.1	70.6	Albuquerque, NM	83.0	53
New York/N. New Jersey, NY/NJ	160.6	183.5	183.8	183.2	Ft. Lauderdale, FL	83.9	54
Oklahoma City, OK	63.0	62.3	56.2	53.5	Atlanta, GA	84.0	55
Omaha, NE	58.8	59.0	59.5	60.6	Denver, CO	85.5	56
Orlando, FL	72.5	76.2	79.1	79.8	Las Vegas, NV	85.7	57
Peoria, IL	45.7	46.5	45.0	46.8	Miami/Hialeah, FL	86.9	58
Philadelphia, PA	82.4	97.0	102.4	103.9	Minneapolis, MN	87.2	59
Phoenix, AZ	78.4	80.9	80.0	78.8	Charlotte, NC	88.1	60
Pittsburgh, PA	N/A	N/A	63.2	65.8	Dallas, TX	92.4	61
Portland, OR	62.6	64.2	64.4	70.1	Baltimore, MD	96.3	62
Providence, RI	87.6	121.4	130.6	130.2	W. Palm Beach, FL	102.6	63
Raleigh/Durham, NC	89.5	98.0	97.0	103.6	Raleigh/Durham, NC	103.6	64
Riverside/San Bernadino, CA	94.5	96.1	106.7	124.1	Philadelphia, PA	103.9	65
Rochester, NY	68.3	72.5	75.7	78.5	Albany/Troy, NY	104.9	66
Sacramento, CA	N/A	87.5	95.3	112.6	Chicago, IL	107.0	67
Salt Lake City/Ogden, UT	68.5	69.4	67.7	69.4	Sacramento, CA	112.6	68
San Antonio, TX	69.2	70.2	65.0	64.2	Seattle/Tacoma, WA	115.0	69
San Diego, CA	118.2	129.2	147.8	175.2	Riverside, CA	124.1	70
San Francisco Bay Area, CA	161.2	171.3	212.6	260.6	Springfield, MA	127.1	71
Seattle/Tacoma, WA	N/A	82.6	88.7	115.0	Providence, RI	130.2	72

Median Sales Price of Existing Single-Family Homes (continued)

Metropolitan Area*	Years				1989 Rank Order	Rank
	1986	1987	1988	1989		
Spokane, WA	53.3	51.2	51.1	52.4	Worcester, MA	73
Springfield, MA	87.6	105.2	118.4	127.1	Washington, DC/MD/VA	74
St. Louis, MO	70.9	74.3	78.1	76.9	New Haven, CT	75
Syracuse, NY	64.3	68.9	74.6	79.3	Hartford, CT	76
Tampa/St. Petersburg, FL	61.1	63.8	65.6	71.9	San Diego, CA	77
Toledo, OH	56.0	56.3	58.4	60.8	Boston, MA	78
Tulsa, OK	65.5	65.7	65.0	62.6	New York, NY	79
Washington, DC/MD/VA	101.6	114.2	132.5	144.4	Los Angeles Area, CA	80
W. Palm Beach/Boca Raton, FL	92.6	102.6	99.0	102.6	Anaheim, CA	81
Wichita, KS	N/A	N/A	60.1	62.0	San Francisco, CA	82
Worcester, MA	N/A	139.1	147.5	141.5	Honolulu, HI	83

*All areas are metropolitan statistical areas (MSA's) as defined by the US Office of Management and Budget. They include the named central city and surrounding areas.

Source: National Association of Realtors.

Comparison of Housing Cost to Median Income Levels, 1989

(For 83 Major Cities, Alphabetically by City)

MSA	Median Home Price (1989)	Average Household Income (1989)	Ratio of Home Price to Avg. Income	MSA	Median Home Price (1989)	Average Household Income (1989)	Ratio of Home Price to Avg. Income
Akron, OH	64,500	33,796	1.91	Louisville, KY	58,400	31,012	1.88
Albany/Troy, NY	104,900	34,404	3.05	Madison, WI	76,500	34,911	2.19
Albuquerque, NM	83,000	32,643	2.54	Memphis, TN	78,100	30,404	2.57
Anaheim/Santa Ana, CA	245,300	43,560	5.63	Miami/Hialeah, FL	86,900	31,783	2.73
Atlanta, GA	84,000	37,941	2.21	Milwaukee, WI	79,600	35,934	2.22
Baltimore, MD	96,300	37,085	2.60	Minneapolis/St. Paul, MN	87,200	38,824	2.25
Baton Rouge, LA	63,800	32,485	1.96	Mobile, AL	56,700	27,468	2.06
Birmingham, AL	78,500	30,007	2.62	Montgomery, AL	68,800	30,195	2.28
Boston, MA	182,800	39,897	4.58	Nashville/Davidson, TN	79,900	33,366	2.39
Buffalo/Niagara Falls, NY	72,500	32,319	2.24	New Haven/Meriden, CT	163,500	36,716	4.45
Charleston, SC	74,500	33,181	2.25	New Orleans, LA	70,000	29,864	2.34
Charlotte, NC	88,700	33,711	2.63	New York/N. New Jersey, NY/NJ	183,400	32,066	5.72
Chattanooga, TN	65,400	29,206	2.24	Oklahoma City, OK	53,500	30,780	1.74
Chicago, IL	107,000	36,007	2.97	Omaha, NE	60,600	33,231	1.82
Cincinnati, OH	75,800	33,650	2.25	Orlando, FL	79,800	33,265	2.40
Cleveland, OH	75,300	34,531	2.18	Peoria, IL	46,800	32,883	1.42
Columbia, SC	73,800	33,484	2.20	Philadelphia, PA	103,900	35,064	2.96
Columbus, OH	77,900	33,150	2.35	Phoenix, AZ	78,800	33,775	2.33
Corpus Christi, TX	64,900	29,045	2.23	Pittsburgh, PA	65,500	32,049	2.04
Dallas, TX	92,300	37,335	2.47	Portland, OR	70,100	32,483	2.16
Daytona Beach, FL	63,400	27,053	2.34	Providence, RI	130,200	31,634	4.12
Dayton/Springfield, OH	68,700	33,301	2.06	Raleigh/Durham, NC	103,600	35,879	2.89
Denver, CO	85,500	37,838	2.26	Riverside/San Bernadino, CA	124,100	30,143	4.12
Des Moines, IA	57,900	33,238	1.74	Rochester, NY	78,500	37,868	2.07
Detroit, MI	73,700	36,834	2.00	Sacramento, CA	112,600	32,803	3.43
El Paso, TX	63,100	26,611	2.37	Salt Lake City/Ogden, UT	69,900	33,064	2.11
Ft. Lauderdale, FL	83,900	35,282	2.38	San Antonio, TX	64,100	30,363	2.11
Ft. Worth, TX	79,800	35,514	2.25	San Diego, CA	175,200	34,358	5.10
Grand Rapids, MI	64,200	34,807	1.84	San Francisco Bay Area, CA	260,600	38,466	6.77
Greenville/Spartanburg, SC	68,600	31,345	2.19	Seattle/Tacoma, WA	104,800	37,680	2.78
Hartford, CT	159,900	40,270	3.97	Spokane, WA	52,400	29,121	1.80
Honolulu, HI	267,600	38,391	6.97	Springfield, MA	127,100	33,003	3.85
Houston, TX	66,700	35,088	1.90	St. Louis, MO	76,900	35,021	2.20
Indianapolis, IN	71,200	34,122	2.09	Syracuse, NY	79,300	34,750	2.28
Jacksonville, FL	66,500	31,088	2.14	Tampa/St. Petersburg, FL	71,600	29,474	2.43
Kansas City, MO/KS	71,600	34,090	2.10	Toledo, OH	60,800	32,445	1.87
Knoxville, TN	71,100	29,703	2.39	Tulsa, OK	62,600	31,292	2.00
Lansing, MI	59,800	34,667	1.72	Washington, DC/MD/VA	144,400	45,519	3.17
Las Vegas, NV	85,700	31,617	2.71	W. Palm Beach/Boca Raton, FL	102,600	35,456	2.89
Lexington/Fayette, KY	77,000	31,593	2.44	Wichita, KS	62,000	33,127	1.87
Little Rock, AR	63,600	30,538	2.08	Worcester, MA	141,500	35,259	4.01
Los Angeles Area, CA	215,500	33,367	6.46				

Sources: Median home prices are from the National Association of Realtors.

Median household income is from CACI Sourcebook of County Demographics.

Compiled by the Iowa Department of Economic Development, Bureau of Planning and Research.

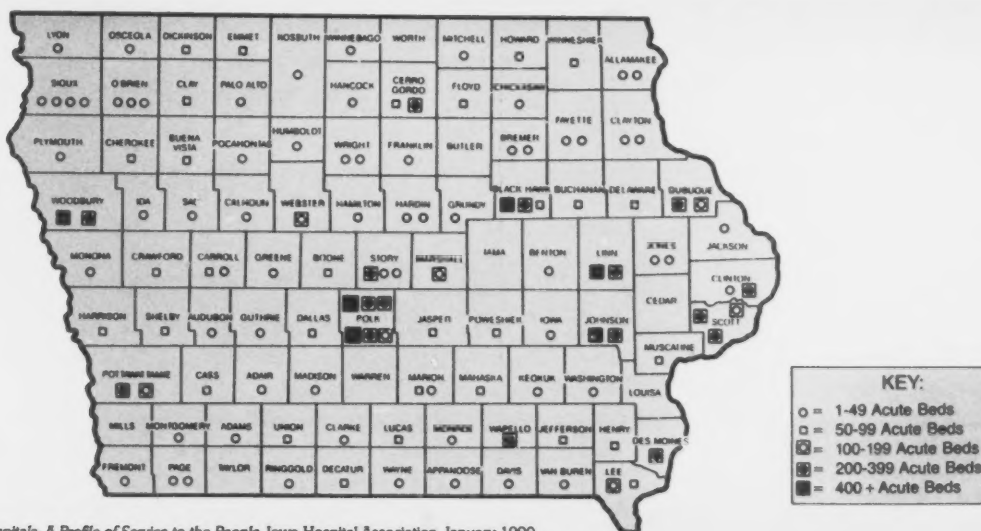
HEALTH

Iowa Community Hospitals

One hundred twenty-five community hospitals are currently operating in Iowa. This compares with 128 in 1985 and 130 in 1984. Ninety-one of Iowa's 99 counties contain at least one community hospital, and no Iowan is more than 25 miles from a hospital.

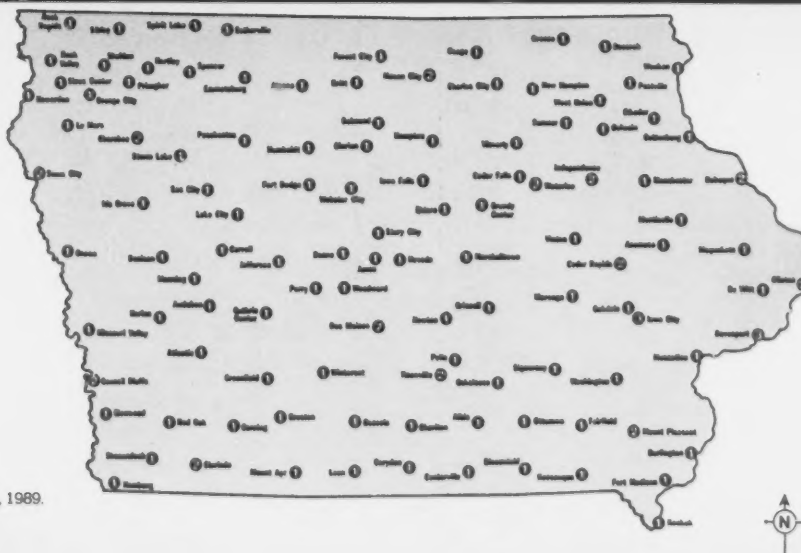


Location of Iowa Community Hospitals, Dec. 1989



Source: *Iowa Hospitals: A Profile of Service to the People*, Iowa Hospital Association, January 1990.

Hospitals Per City



Source: American Hospital Association, 1989.

Registered Hospitals, Midwest, 1988

State	Hospitals	# Of Beds	Total Admissions	Occupancy Rate %	Avg. Stay In Days *
IOWA	137	17,757	416,030	64.9	8.2
Illinois	257	61,750	1,648,343	66.0	7.4
Indiana	135	27,592	766,004	62.2	6.6
Kansas	159	16,136	343,649	63.2	7.8
Michigan	206	42,084	1,174,732	68.2	7.4
Minnesota	170	25,689	562,948	66.4	9.0
Missouri	163	30,692	814,200	65.2	7.5
Nebraska	106	11,185	214,973	59.3	9.9
N. Dakota	58	5,646	120,118	64.6	10.5
Ohio	229	56,303	1,648,049	67.5	6.9
S. Dakota	66	5,204	116,275	61.2	9.0
Wisconsin	149	24,265	640,440	66.4	7.4

*Community Hospitals Only

Source: Hospital Statistics, 1989-90 edition, American Hospital Association.

Licensed Medical Professionals*

	1980	1985	1986	1989
Chiropractors	1,067	1,200	1,100	1,227
Dentists	2,543	3,725	2,345	2,364
Dental Hygienists	930	1,709	1,024	1,090
LPN's	6,696	10,983	10,377	9,681
MD's	7,045	8,253	8,292	8,732
Optometrists	509	566	518	568
Osteopathic Physicians	293	154	122	96
Osteopathic Physicians and Surgeons	673	875	904	962
Pharmacists	N/A	4,027	3,811	3,699
Physical Therapists	667	661	626	758
Physician Assistants	N/A	N/A	150	180
Podiatrists	150	148	114	155
RN's	26,580	29,974	30,423	31,055

*All figures represent "Total active license holders"

Sources: Iowa Board of Nursing, Iowa Department of Health, Iowa Board of Pharmacy.

Number of Practicing Physicians by County, February 1990

County	Physicians	County	Physicians	County	Physicians
Adair	3	Franklin	7	Montgomery	9
Adams	3	Fremont	3	Muscatine	26
Allamakee	8	Greene	9	Osceola	6
Appanoose	7	Grundy	4	O'Brien	3
Audubon	3	Guthrie	4	Palo Alto	6
Benton	7	Hamilton	11	Plymouth	8
Black Hawk	195	Hancock	4	Pocahontas	4
Boone	15	Hardin	14	Folk	763
Bremer	12	Harrison	8	Pottawattamie	97
Buchanan	18	Henry	13	Poweshiek	17
Buena Vista	13	Howard	6	Ringgold	4
Butler	3	Humbolt	3	Sac	5
Calhoun	11	Ida	4	Scott	221
Carroll	23	Iowa	7	Shelby	5
Cass	13	Jackson	12	Sioux	18
Cedar	5	Jasper	16	Story	101
Cerro Gordo	112	Jefferson	9	Tama	7
Cherokee	14	Johnson	585	Taylor	1
Chickasaw	6	Jones	6	Union	15
Clarke	4	Keokuk	5	Van Buren	4
Clay	23	Kossuth	7	Wapello	47
Clayton	12	Lee	42	Warren	15
Clinton	59	Linn	235	Washington	10
Crawford	8	Louisa	3	Wayne	5
Dallas	15	Lucas	3	Webster	50
Davis	6	Lyon	4	Winnebago	6
Decatur	5	Madison	6	Winneshiek	15
Delaware	10	Mahaska	14	Woodbury	164
Des Moines	62	Marion	34	Worth	2
Dickinson	13	Marshall	59	Wright	8
Dubuque	152	Mills	9		
Emmet	10	Mitchell	6		
Fayette	11	Monona	6		
Floyd	10	Monroe	4		
				State Total	3,696

Source: Iowa Physician Information System, Office of Community-Based Programs, University of Iowa College of Medicine

Selected Vital Events for Iowa, 1988

	Number	Occurrence Rate*
Live Births	38,361	13.5
Out of Wedlock	6,815	177.7
Congenital Malformations	477	12.4
Deaths from All Causes	27,583	9.7
Maternal Deaths	5	1.3
Fetal Deaths	250	6.5
Neonatal Deaths	199	5.2
Perinatal Deaths	449	11.7
Infant Deaths	319	8.3
Marriages	25,090	8.9
Dissolutions	10,808	3.8
List of 70 Selected Causes of Death:		
Tuberculosis, All Forms	13	0.5
Tuberculosis of Respiratory System	10	0.4
Other Tuberculosis	3	0.1
Syphilis 1 — Other Infective and Parasitic Diseases	324	11.4
Malignant Neoplasms, Including Neoplasms of Lymphatic and Hematopoietic Tissues	6,130	216.3
Malignant Neoplasms of Lip, Oral Cavity, and Pharynx	83	2.9
Malignant Neoplasms of Digestive Organs and Peritoneum	1,467	51.8
Malignant Neoplasms of Respiratory and Intrathoracic Organs	1,697	59.9
Malignant Neoplasms of Breast	545	19.2
Malignant Neoplasms of Genital Organs	738	26.0
Malignant Neoplasms of Urinary Organs	304	10.7
Malignant Neoplasms of All Other and Unspecified Sites	676	23.9
Leukemia	246	8.7
Other Neoplasms of Lymphatic and Hematopoietic Tissues	374	13.2
Benign Neoplasms, Carcinoma In Situ, and Neoplasms of Uncertain Behavior and of Unspecified Nature	66	2.3
Diabetes Mellitus	467	16.5
Anemias	40	1.4
Meningitis	15	0.5
Alzheimer's Disease	271	9.6
Major Cardiovascular Diseases	13,189	465.4
Diseases of Heart	10,061	355.0
Rheumatic Fever and Rheumatic Heart Disease	75	2.6
Hypertensive Heart Disease	200	7.1
Hypertensive Heart and Renal Disease	60	2.1
Ischemic Heart Disease	6,557	231.4
Acute Myocardial Infarction	3,257	114.9
Other Acute and Subacute Forms of Ischemic Heart Disease	13	0.5
Angina Pectoris	15	0.5
Old Myocardial Infarction and Other forms of Chronic Ischemic Heart Disease	3,272	115.5
Other Diseases of the Endocardium	162	5.7
All Other Forms of Heart Disease	3,007	106.1
Hypertension With or Without Renal Disease	120	4.2
Cerebrovascular Diseases	2,185	77.1
Intracerebral and Other Intracranial Hemorrhage	190	6.7
Cerebral Thrombosis and Unspecific Occlusions of Cerebral Arteries	286	10.1
Cerebral Embolism	18	0.6
All Other and Late Effects of Cerebrovascular Diseases	1,691	59.7
Arteriosclerosis	496	17.5
Other Diseases of Arteries, Arterioles, and Capillaries	327	11.5
Acute Bronchitis and Bronchiolitis	7	0.2
Pneumonia	1,191	42.0
Influenza	69	2.4
Chronic Obstructive Pulmonary Diseases and Allied Conditions	1,215	42.9
Bronchitis, Chronic and Unspecified	42	1.5
Emphysema	175	6.2
Asthma	51	1.8
Other Chronic Obstructive Pulmonary Diseases and Allied Conditions	947	33.4
Ulcer of the Stomach and Duodenum	90	3.2
Chronic Liver Disease and Cirrhosis	182	6.4
Cholelithiasis and Other Disorders of the Gallbladder	47	1.7
Nephritis, Nephrotic Syndrome, and Nephrosis	205	7.2
Acute Glomerulonephritis and Nephrotic Syndrome	6	0.2
Chronic Glomerulonephritis, Nephritis and Nephropathy, Not Specified, and Renal Sclerosis, Unspecified	31	1.1
Renal Failure, Disorders Resulting from Impaired Renal Function, and Small Kidney of Unknown Cause	168	5.9
Infections of Kidney	20	0.7
Hyperplasia of Prostate	4	0.1
Complications of Pregnancy, Childbirth, and the Puerperium	5	1.3
Congenital Anomalies	126	4.4
Certain Conditions Originating in the Perinatal Period	132	4.7
Birth Traumas, Intrauterine Hypoxia, Birth Asphyxia, and Respiratory Distress Syndrome	20	0.7
Other Conditions Originating in the Perinatal Period	112	4.0
Symptoms, Signs, and Ill-Defined Conditions	154	5.4
All Other Diseases	2,088	73.7

Selected Vital Events for Iowa, 1988 (continued)

	Number	Occurrence Rate*
Accidents and Adverse Effects	1,136	40.1
Motor Vehicle Accidents	556	19.6
All Other Accidents and Adverse Effects	580	20.5
Suicides	319	11.3
Homicide and Legal Intervention	51	1.8
Other External Causes	26	0.9

*Rates for live births, deaths, marriages, and dissolutions are calculated per 1,000 estimated population; selected causes of death rates are per 100,000 estimated population. Rates for out of wedlock live births, live birth congenital malformations, fetal deaths, neonatal deaths, perinatal deaths, and infant deaths are per 1,000 live births. Maternal death rates are per 10,000 live births.

NOTE: Statistics are based on resident data, with the exception of marriages and dissolutions, which are recorded in the county where the event occurred.

Source: *Vital Statistics of Iowa, 1988*, Iowa Department of Public Health.

15 Leading Causes of Death in Iowa, 1988

Cause of Death	Number	Percent of Total	Male		Female	
			Number	Percent of Total	Number	Percent of Total
Diseases of the Heart	10,173	36.5	4,996	35.7	5,177	37.4
Malignant Neoplasms	6,182	22.2	3,273	23.4	2,909	21.0
Cerebrovascular Diseases	2,212	7.9	843	6.0	1,369	9.9
Pneumonia and Influenza	1,259	4.5	556	4.0	703	5.1
Chronic Obstructive Pulmonary Diseases and Allied Conditions	1,206	4.3	819	5.8	387	2.8
All Accidents and Adverse Effects	1,164	4.2	777	5.5	387	2.8
General Arteriosclerosis	499	1.8	172	1.2	327	2.4
Diabetes Mellitus	458	1.6	197	1.4	261	1.9
Other Diseases of Arteries, Arterioles, and Capillaries	336	1.2	188	1.3	148	1.1
Infective and Parasitic Diseases	333	1.2	165	1.2	168	1.2
Suicides	317	1.1	253	1.8	64	0.5
Alzheimer's Disease	266	1.0	94	0.7	172	1.2
Nephritis, Nephrotic Syndrome, and Nephrosis	201	0.7	106	0.8	95	0.7
Chronic Liver Disease and Cirrhosis	191	0.7	123	0.9	68	0.5
Congenital Anomalies	136	0.5	79	0.6	57	0.4
All Other Causes	2,918	10.5	1,367	9.8	1,551	11.2
Total	27,851	100.0	14,008	100.0	13,843	100.0

Source: *Vital Statistics of Iowa, 1988*, Iowa Department of Public Health.

Selected Cardiovascular Disease Deaths as Percentages of Total Deaths

Year	Major Cardiovascular Diseases		Diseases of Heart		Hypertension		Cerebrovascular Diseases		Arteriosclerosis		Other Diseases of Arteries, Arterioles, and Capillaries	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1988	13,341	47.9	10,173	36.5	121	0.4	2,212	7.9	499	1.8	336	1.2
1987	13,542	49.8	10,390	38.2	114	0.4	2,181	8.0	532	2.0	325	1.2
1986	13,511	50.0	10,323	38.2	97	0.4	2,227	8.2	509	1.9	355	1.3
1985	13,954	50.2	10,672	38.4	131	0.5	2,304	8.3	523	1.9	324	1.2
1984	13,961	51.8	10,568	39.2	143	0.5	2,407	8.9	510	1.9	333	1.2
1983	14,369	52.2	11,034	40.1	115	0.4	2,329	8.5	580	2.1	311	1.1
1982	14,225	53.0	10,805	40.2	121	0.5	2,423	9.0	559	2.1	317	1.2
1981	14,235	52.9	10,588	39.3	118	0.4	2,624	9.7	559	2.1	346	1.3
1980	14,477	53.4	10,750	39.7	127	0.5	2,690	9.9	605	2.2	305	1.1
1979	14,530	54.2	10,736	40.0	109	0.4	2,806	10.5	575	2.1	304	1.1
1978	14,958	54.6	11,044	40.3	95	0.3	2,844	10.4	550	2.0	425	1.6

Source: Vital Statistics of Iowa, 1988, Iowa Department of Public Health.

Selected Causes of Death by Year, Iowa, 1978-1988

Year	Heart Disease		Cancer		Cerebrovascular Disease		Accidents		Pneumonia and Influenza	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1988	10,173	359.0	6,182	218.1	2,212	78.1	1,164	41.1	1,259	44.4
1987	10,390	368.0	5,904	209.1	2,181	77.3	1,036	36.7	1,003	35.5
1986	10,323	362.2	5,850	205.3	2,227	78.1	1,037	36.4	1,087	38.1
1985	10,672	370.0	6,119	212.2	2,304	79.9	1,101	38.2	1,161	40.3
1984	10,568	364.0	5,829	200.8	2,407	82.9	1,009	34.8	1,005	34.6
1983	11,034	379.8	5,975	205.7	2,329	80.2	1,108	38.1	943	32.5
1982	10,805	370.8	5,775	198.2	2,423	83.2	1,110	38.1	821	28.2
1981	10,588	363.1	5,690	195.1	2,624	90.0	1,283	44.0	1,009	34.6
1980	10,750	368.9	5,579	191.5	2,690	92.3	1,331	45.7	968	33.2
1979	10,736	369.9	5,632	194.0	2,806	96.7	1,371	47.2	751	25.9
1978	11,044	380.0	5,448	187.5	2,844	97.9	1,383	47.6	1,007	34.7

NOTE: Rates are per 100,000 population.

Source: Vital Statistics of Iowa, 1988, Iowa Department of Public Health.

BUSINESS CLIMATE

Since Iowa is often considered an agricultural state, many people do not realize that manufacturing generates about three times as much in total personal income here as does agriculture.

Because Iowa workers are among the most highly educated, and are more productive than the national average, capital intensive, well-paying industries are attracted to the state. One hundred two of Fortune's "Top 500" companies operate 215 manufacturing facilities here.



Fortune 500 in Iowa*

(Alphabetically by Iowa Company)

Iowa Company Name	Iowa City	Parent	Parent City	State	Fortune 500 Sales Rank (Parent)
AC/ROCHESTER	SIoux CITY	GENERAL MOTORS CORPORATION	DETROIT	MI	1
AG PROCESSING INC.	SHELDON	AG PROCESSING INC.	OMAHA	NE	359
AG PROCESSING INC.	MASON CITY	AG PROCESSING INC.	OMAHA	NE	359
AG PROCESSING INC.	SERGEANT BLUFF	AG PROCESSING INC.	OMAHA	NE	359
AG PROCESSING INC.	EAGLE GROVE	AG PROCESSING INC.	OMAHA	NE	359
AIR PRODUCTS & CHEMICALS, INC.	DES MOINES	AIR PRODUCTS & CHEMICALS, INC.	ALLENTOWN	PA	166
ALUMINUM CO. OF AMERICA	DAVENPORT	ALUMINUM CO. OF AMERICA	PITTSBURGH	PA	37
AMANA REFRIGERATION, INC.	AMANA	RAYTHEON CORP.	LEXINGTON	MA	52
AMERICAN WELDING & TANK CO.	BLOOMFIELD	HARSCO CORP.	CANFIELD	PA	284
AMOCO FOAM PRODUCTS	OELWEIN	AMOCO PROD.	ATLANTA	GA	12
ARMOUR FOOD CO.	MASON CITY	CONAGRA, INC.	OMAHA	NE	36
ASGROW SEED COMPANY	PERRY	UPJOHN, INC.	KALAMAZOO	MI	156
ASGROW SEED COMPANY	ANAMOSA	UPJOHN, INC.	KALAMAZOO	MI	156
ASSEMBLER'S, INC.	MARION	CHESAPEAKE	RICHMOND	VA	384
BALANCED ENERGY CO.	CLINTON	HOLLY FARMS	MEMPHIS	TN	214
BASF/INMONT DIV.	DES MOINES	BASF	PARSIPPANY	NJ	92
BLUE STAR FOODS, INC.	COUNCIL BLUFFS	CONAGRA	OMAHA	NE	36
BOYER VALLEY FERTILIZER CO.	WALL LAKE	CONAGRA	OMAHA	NE	36
BREDA FERTILIZER CO.	BREDA	CONAGRA IND.	OMAHA	NE	36
CADILLAC PLASTIC	DAVENPORT	HANNA (M.A.)	CLEVELAND	OH	322
CEDARAPIDS INC.	CEDAR RAPIDS	RAYTHEON CO.	LEXINGTON	MA	52
CENEX/LAND O'LAKES	MASON CITY	CENEX/LAND O'LAKES	INVER GROVE HEIGHTS	MN	183
CENEX/LAND O'LAKES	VINCENT	CENEX/LAND O'LAKES	INVER GROVE HEIGHTS	MN	183
CENEX/LAND O'LAKES	SHELDON	CENEX/LAND O'LAKES	INVER GROVE HEIGHTS	MN	183
CENEX/LAND O'LAKES	SWALEVILLE	CENEX/LAND O'LAKES	INVER GROVE HEIGHTS	MN	183
CENEX/LAND O'LAKES	HUDSON	CENEX/LAND O'LAKES	INVER GROVE HEIGHTS	MN	183
CENEX/LAND O'LAKES	ELLSWORTH	CENEX/LAND O'LAKES	INVER GROVE HEIGHTS	MN	183
CENEX/LAND O'LAKES	AINSWORTH	CENEX/LAND O'LAKES	INVER GROVE HEIGHTS	MN	183
CENEX/LAND O'LAKES	CLARENCE	CENEX/LAND O'LAKES	INVER GROVE HEIGHTS	MN	183
CENTRAL SOYA FEED CO., INC.	BELMONT	CENTRAL SOYA, INC.	FT. WAYNE	IN	192
CENTRAL SOYA FEED CO., INC.	DES MOINES	CENTRAL SOYA, INC.	FT. WAYNE	IN	192
CENTRAL SOYA FEED CO., INC.	WASHINGTON	CENTRAL SOYA, INC.	FT. WAYNE	IN	192
CHAMPION INTERNATIONAL	CLINTON	CHAMPION INTERNATIONAL	STAMFORD	CT	97
CHESAPEAKE PACKAGING	MARION	CHESAPEAKE	RICHMOND	VA	384
CHESAPEAKE PACKAGING	DAVENPORT	CHESAPEAKE	RICHMOND	VA	384
CHEVRON CHEMICAL CO.	FORT MADISON	CHEVRON CORP.	SAN RAMON	CA	11
CHEVRON CHEMICAL CO.	FORT MADISON	CHEVRON CORP.	SAN RAMON	CA	11
CLIFTON PRECISION INSTRUMENTS	DAVENPORT	LITTON INDUSTRIES	BEVERLY HILLS	CA	100
CLIMAX MOLYBDENUM CO.	FORT MADISON	AMAX, INC.	NEW YORK	NY	120
COCA-COLA BOTTLING CO.	CEDAR RAPIDS	COCA COLA ENTERPRISES	ATLANTA	GA	121
COCA-COLA BOTTLING CO.	DUBUQUE	COCA COLA	ATLANTA	GA	51
COCA-COLA BOTTLING CO.	MASON CITY	COCA COLA	ATLANTA	GA	51
COMMUNITY PUBLISHING INC.	INDEPENDENCE	GANNETT, INC.	ARLINGTON	VA	130
CONAGRA POULTRY	OSKALOOSA	CONAGRA, INC.	OMAHA	NE	36
CON AGRA FERTILIZERS	REINBECK	CONAGRA, INC.	OMAHA	NE	36
CONTAINER CORP. OF AMERICA	SIoux CITY	JEFFERSON SMURFIT CORP.	ST. LOUIS	MO	154
CONTINENTAL BAKING COMPANY	DAVENPORT	RALSTON PURINA CORP.	ST. LOUIS	MO	69
CONTINENTAL BAKING COMPANY	WATERLOO	RALSTON PURINA CORP.	ST. LOUIS	MO	69
CRANE CO.	WASHINGTON	CRANE COMPANY	NEW YORK	NY	267
CRYOVAC	CEDAR RAPIDS	W. R. GRACE & CO.	NEW YORK	NY	76
CURRIES CO.	MASON CITY	ESSEX IND. INC.	NEW HAVEN	CT	335
DELANAV INC.	WEST DES MOINES	COLT INDUSTRIES	NEW YORK	NY	250
DES MOINES REGISTER & TRIBUNE	DES MOINES	GANNETT, INC.	ARLINGTON	VA	130

Fortune 500 in Iowa (continued)

IA Company Name	IA City	Parent	Parent City	State	Fortune 500 Sales Rank (Parent)
DOERFER ENGINEERING	CEDAR FALLS	JEFFERSON SMURFIT CORP.	ST. LOUIS	MO	154
DOW JONES & COMPANY, INC.	WEST DES MOINES	DOW JONES & COMPANY	NEW YORK	NY	235
DUPONT, E.I. DUPONT, DEMOURS & CO.	CLINTON	E.I. DUPONT, DE MOURS & CO.	WILMINGTON	DE	9
DUPONT, E.I. DUPONT, DEMOURS & CO.	FORT MADISON	E.I. DUPONT, DE MOURS & CO.	WILMINGTON	DE	9
EAGLE MFG.	DUBUQUE	MASCO IND.	TAYLOR	MI	142
EATON CORP. HYDRAULICS DIV.	SPENCER	EATON CORP.	CLEVELAND	OH	115
EATON CORP. TRANSMISSION DIV.	SHENANDOAH	EATON CORP.	CLEVELAND	OH	115
EATON CORPORATION, ENGINE COMP.	BELMOND	EATON CORP.	CLEVELAND	OH	115
ERTL COMPANY, INC.	DYERSVILLE	HANSON IND. INC.	ISELIN	NJ	79
EVEREADY BATTERY CO., INC.	RED OAK	RALSTON PURINA	ST. LOUIS	MO	69
EXIDE BATTERY CO.	BURLINGTON	EXIDE CORP.	READING	PA	411
EXIDE CORP.	MANCHESTER	EXIDE CORP.	READING	PA	411
FARMLAND FOODS, INC.	CARROL	FARMLAND IND., INC.	KANSAS CITY	MO	151
FARMLAND FOODS, INC.	DENISON	FARMLAND IND., INC.	KANSAS CITY	MO	151
FARMLAND IND., INC.	EAGLE GROVE	FARMLAND IND., INC.	KANSAS CITY	MO	151
FARMLAND IND., INC.	FORT DODGE	FARMLAND IND., INC.	KANSAS CITY	MO	151
FARMLAND IND., INC.	CEDAR RAPIDS	FARMLAND IND., INC.	KANSAS CITY	MO	151
FARMLAND IND., INC.	IDA GROVE	FARMLAND IND., INC.	KANSAS CITY	MO	151
FEED SPECIALTIES CO., INC.	DES MOINES	CENTRAL SOYA CO., INC.	FORT WAYNE	IN	192
FIELDSTONE CABINETRY, INC.	NORTHWOOD	MASCO CORP.	DETROIT	MI	142
FISHER CONTROLS INTL., INC.	MARSHALLTOWN	MONSANTO	ST. LOUIS	MO	55
FLEETGUARD	LAKE MILLS	CUMMINS ENGINE CO.	COLUMBUS	IN	132
FLEX-O-LITE	MUSCATINE	LUKENS GENERAL IND., INC.	ST. LOUIS	MO	442
FMC CORP.	SERGEANT BLUFF	FMC CORP.	CHICAGO	IL	133
FORT DODGE LABORATORIES, INC.	FORT DODGE	AMERICAN HOME PRODUCTS, INC.	NEW YORK	NY	68
GENERAL ELECTRIC CO.	CARROLL	GENERAL ELECTRIC APPLIANCE	FAIRFIELD	CT	5
GENERAL ELECTRIC CO.	W. BURLINGTON	GENERAL ELECTRIC APPLIANCE	FAIRFIELD	CT	5
GENERAL FILTER CO.	AMES	MARLEY CO.	THE MISSION	KS	461
GENERAL MILLS, INC.	CEDAR RAPIDS	GENERAL MILLS INC.	MINNEAPOLIS	MN	85
GEORGIA-PACIFIC CORP.	DUBUQUE	GEORGIA PACIFIC CORP.	ATLANTA	GA	41
GEORGIA-PACIFIC CORP.	BURLINGTON	GEORGIA PACIFIC CORP.	ATLANTA	GA	41
GEORGIA-PACIFIC CORP.	FORT DODGE	GEORGIA PACIFIC CORP.	ATLANTA	GA	41
GEORGIA-PACIFIC CORP.	MONTICELLO	GEORGIA PACIFIC CORP.	ATLANTA	GA	41
GOLD BOND BUILDING PRODUCTS	FORT DODGE	NATIONAL GYPSUM COMPANY	DALLAS	TX	283
GOODYEAR TIRE & RUBBER CO.	MOUNT PLEASANT	GOODYEAR TIRE & RUBBER CO.	AKRON	OH	39
GRIFFIN WHEEL COMPANY	KEOKUK	AMSTED IND.	CHICAGO	IL	341
HARKER'S, INC.	LE MARS	HOLLY FARMS	MEMPHIS	TN	214
HARNISCHFEGGER CORPORATION	CEDAR RAPIDS	HARNISCHFEGGER CORPORATION	MILWAUKEE	WI	262
HEATILATOR, INC.	MOUNT PLEASANT	HON IND., INC.	MUSCATINE	IA	462
HEINZ USA, INC.	MUSCATINE	H.J. HEINZ CO.	PITTSBURGH	PA	82
HON INDUSTRIES	MUSCATINE	HON INDUSTRIES	MUSCATINE	IA	462
HON CO., THE	MUSCATINE	HON IND., INC.	MUSCATINE	IA	462
HON CO., THE	MUSCATINE	HON IND., INC.	MUSCATINE	IA	462
HON CO., THE	MUSCATINE	HON IND., INC.	MUSCATINE	IA	462
HON CO., THE	MUSCATINE	HON IND., INC.	MUSCATINE	IA	462
HORMEL, GEO. A. & CO.	ALGONA	GEORGE A. HORMEL & CO.	AUSTIN	MN	190
HORMEL, GEO. A. & CO.	KNOXVILLE	GEORGE A. HORMEL & CO.	AUSTIN	MN	190
HUBINGER CO., THE	KEOKUK	H. J. HEINZ CO.	PITTSBURGH	PA	82
ILLINOIS TOOL WORKS	GUTTENBERG	ILLINOIS TOOL WORKS/SHAKEPROOF	CHICAGO	IL	200
INT'L PAPER CO.	CLINTON	INT'L PAPER CO.	NEW YORK	NY	35
JOHN DEERE, DAVENPORT WORKS	DAVENPORT	DEERE & COMPANY	MOLINE	IL	66
JOHN DEERE, DES MOINES WORKS	DES MOINES	DEERE & COMPANY	MOLINE	IL	66
JOHN DEERE, DUBUQUE WORKS	DUBUQUE	DEERE & COMPANY	MOLINE	IL	66
JOHN DEERE, ENGINE WORKS	WATERLOO	DEERE & COMPANY	MOLINE	IL	66
JOHN DEERE, OTTUMWA WORKS	OTTUMWA	DEERE & COMPANY	MOLINE	IL	66
JOHN DEERE, TRACTOR WORKS	WATERLOO	DEERE & COMPANY	MOLINE	IL	66
JOHN DEERE, WATERLOO WORKS	WATERLOO	DEERE & COMPANY	MOLINE	IL	66
KOEHRING CRANES & EXCAVATORS	WAVERLY	TEREX INT'L, INC.	GREEN BAY	WI	369
LEAR SIEGLER, INC.	DUBUQUE	LEAR SIEGLER	TROY	MI	340
LINN CO-OP. OIL CO.	MARION	FARMLAND INDUSTRIES, INC.	KANSAS CITY	MO	151
LONGVIEW FIBRE CO.	CEDAR RAPIDS	LONGVIEW FIBER CO.	LONGVIEW	WA	421
MARTIN MARIETTA AGGREGATES INC.	AMES	MARTIN MARIETTA CORP.	BETHESDA	MD	84
MARTIN MARIETTA AGGREGATES INC.	IOWA FALLS	MARTIN MARIETTA CORP.	BETHESDA	MD	84
MARTIN-MARIETTA AGGREGATES INC.	FERGUSON	MARTIN MARIETTA CORP.	BETHESDA	MD	84
MARTIN-MARIETTA AGGREGATES INC.	FORT DODGE	MARTIN MARIETTA CORP.	BETHESDA	MD	84
MARTIN-MARIETTA AGGREGATES INC.	MASON CITY	MARTIN MARIETTA CORP.	BETHESDA	MD	84
MAYTAG	NEWTON	MAYTAG	NEWTON	IA	146
MEADOW GOLD DAIRY	DES MOINES	BORDEN, INC.	NEW YORK	NY	60
MEREDITH	DES MOINES	MEREDITH	DES MOINES	IA	387
MEREDITH/BURDA CO.	DES MOINES	MEREDITH	DES MOINES	IA	387
MONSANTO CO.	MUSCATINE	MONSANTO CORP.	ST. LOUIS	MO	55
MOTOROLA INC., COMMUNICATIONS	MOUNT PLEASANT	MOTOROLA, INC.	SCHAUMBURG	IL	48
NATIONAL BY-PRODUCTS, INC.	DES MOINES	HOLLY FARMS, INC.	MEMPHIS	TN	214
NATIONAL BY-PRODUCTS, INC.	CLINTON	HOLLY FARMS, INC.	MEMPHIS	TN	214
NORPLEX	POSTVILLE	ALLIED-SIGNAL, INC.	MORRISTOWN	NJ	31
O'S GOLD SEED CO., INC.	PARKERSBURG	UPJOHN CO.	KALAMAZOO	MI	156
OCCIDENTAL CHEMICAL COMPANY	BUFFALO	OCCIDENTAL CHEMICAL CORP.	DALLAS	TX	16

Fortune 500 in Iowa (continued)

IA Company Name	IA City	Parent	Parent City	State	Fortune 500 Sales Rank (Parent)
ORAL B LABORATORIES, INC.	IOWA CITY	GILLETTE COMPANY	BOSTON	MA	124
OSCAR MAYER FOODS CORPORATION	DAVENPORT	PHILLIP MORRIS COMPANIES, INC.	NEW YORK	NY	7
PACKAGING CORP. OF AMERICA	TAMA	TENNECO, INC.	HOUSTON	TX	26
PACKAGING CORP. OF AMERICA	MARSHALLTOWN	TENNECO, INC.	HOUSTON	TX	26
PARKER HANNIFIN CORP.	MARION	PARKER HANNIFIN CORP.	CLEVELAND	OH	177
PARKER HANNIFIN INC.	RED OAK	PARKER HANNIFIN CORP.	CLEVELAND	OH	177
PEPSI-COLA BOT CO. OF CEDAR RAPIDS	CEDAR RAPIDS	PEPSICO	PURCHASE	NY	23
PEPSI-COLA BOTTLING CO.	WATERLOO	PEPSICO	PURCHASE	NY	23
PEPSI-COLA BOTTLING CO.	MASON CITY	PEPSICO	PURCHASE	NY	26
PEPSI-COLA BOTTLING CO.	CARROLL	PEPSICO	PURCHASE	NY	26
PEPSI-COLA BOTTLING CO.	OSKALOOSA	PEPSICO	PURCHASE	NY	26
PEPSI-COLA BOTTLING CO.	URBANDALE	PEPSICO	PURCHASE	NY	26
PLEXCO	BLOOMFIELD	AMSTED INDUSTRIES	CHICAGO	IL	341
PLEXCO	FAIRFIELD	AMSTED INDUSTRIES	CHICAGO	IL	341
PROCTER & GAMBLE MFG. CO.	IOWA CITY	PROCTER & GAMBLE CO.	CINCINNATI	OH	14
PURINA MILLS CO.	IOWA FALLS	RALSTON/PURINA CORP.	ST. LOUIS	MO	69
PURINA MILLS	OTTUMWA	RALSTON/PURINA CORP.	ST. LOUIS	MO	69
QUAKER OATS CO., THE	CEDAR RAPIDS	QUAKER OATS CO.	CHICAGO	IL	87
QUANTUM CHEMICAL CORPORATION	CLINTON	QUANTUM CHEMICAL CORP.	CINCINNATI	OH	168
RALSTON PURINA COMPANY	CLINTON	RALSTON PURINA CO.	ST. LOUIS	MO	69
RALSTON PURINA COMPANY	DAVENPORT	RALSTON PURINA CO.	ST. LOUIS	MO	69
RALSTON PURINA COMPANY	OLIN	RALSTON PURINA CO.	ST. LOUIS	MO	69
RALSTON PURINA COMPANY	SIOUX CITY	RALSTON PURINA CO.	ST. LOUIS	MO	71
RALSTON PURINA COMPANY	OELWEIN	RALSTON PURINA CO.	ST. LOUIS	MO	71
RECORD HERALD AND INDIANOLA TR	INDIANOLA	GANNETT CO., INC.	ARLINGTON	VA	130
ROBERT'S DAIRY	DES MOINES	PRAIRIE FARM DAIRY, INC.	CARLINVILLE	IL	481
ROCKWELL INTERNATIONAL	CORALVILLE	ROCKWELL INT'L EL	SEGUNDO	CA	29
ROCKWELL INTERNATIONAL	MASON CITY	ROCKWELL INT'L EL	SEGUNDO	CA	29
ROCKWELL INTERNATIONAL	FAIRFIELD	ROCKWELL INT'L EL	SEGUNDO	CA	29
ROCKWELL INTERNATIONAL	CEDAR RAPIDS	ROCKWELL INT'L EL	SEGUNDO	CA	29
ROCKWELL INTERNATIONAL	DECORAH	ROCKWELL INT'L EL	SEGUNDO	CA	29
ROCKWELL INTERNATIONAL	CEDAR RAPIDS	ROCKWELL INT'L EL	SEGUNDO	CA	29
ROSKAMP DIVISION, CPM	WATERLOO	INGERSOLL RAND CORP.	WOODCLIFF LAKE	NJ	134
ROTO ROOTER CORP.	WEST DES MOINES	CHEMED CORP.	CINCINNATI	OH	471
RUBBERMAID COMMERCIAL PRODUCTS	CENTERVILLE	RUBBERMAID, INC.	WOOSTER	OH	285
SARA LEE BAKERY CO.	NEW HAMPTON	SARA LEE CORP.	CHICAGO	IL	34
SHELLER-GLOBE CORP.	KEOKUK	UNITED TECHNOLOGIES CORP.	HARTFORD	CT	17
SHELLER-GLOBE CORP.	IOWA CITY	UNITED TECHNOLOGIES CORP.	HARTFORD	CT	17
SMITH, H.P., PAPER CO.	IOWA CITY	JAMES RIVER CORP.	RICHMOND	VA	81
SNAP-ON TOOLS CORP.	ALGONA	SNAP-ON TOOLS CORP.	KENOSHA	WI	363
SONOCO PRODUCTS COMPANY	BOONE	SONOCO PRODUCTS COMPANY	HARTSVILLE	SC	244
SOUTHWEST PETRO-CHEM, INC.	SPENCER	WITCO CORP.	NEW YORK	NY	252
SQUARE D CO.	CEDAR RAPIDS	SQUARE D COMPANY	PALATINE	IL	234
SQUEALER FEED CO.	HARLAN	INTERNATIONAL MULTIFOODS	MINNEAPOLIS	MN	224
SQUEALER FEED CO.	MARION	INTERNATIONAL MULTIFOODS	MINNEAPOLIS	MN	224
SQUEALER FEED CO. OF DM	DES MOINES	INTERNATIONAL MULTIFOODS	MINNEAPOLIS	MN	224
STONE CONTAINER CORPORATION	DES MOINES (2)	STONE CONTAINER CORP.	CHICAGO	IL	94
STONE CONTAINER CORPORATION	SIOUX CITY	STONE CONTAINER CORP.	CHICAGO	IL	94
STONE CONTAINER CORPORATION	KEOKUK	STONE CONTAINER CORP.	CHICAGO	IL	94
SUPERSWEET FEEDS	LE MARS	INTERNATIONAL MULTIFOODS CORP.	MINNEAPOLIS	MN	224
SUPERSWEET FEEDS	NEW HAMPTON	INTERNATIONAL MULTIFOODS CORP.	MINNEAPOLIS	MN	224
SUPERSWEET FEEDS	OSKALOOSA	INTERNATIONAL MULTIFOODS CORP.	MINNEAPOLIS	MN	224
TERRA INT'L, INC.	STRAWBERRY POINT	INSPIRATION RESOURCES CORP.	NEW YORK	NY	274
TERRA INT'L, INC.	MUSCATINE	INSPIRATION RESOURCES CORP.	NEW YORK	NY	274
TERRA INT'L, INC.	VINTON	INSPIRATION RESOURCES CORP.	NEW YORK	NY	274
TERRA INT'L, INC.	CARROLL	INSPIRATION RESOURCES CORP.	NEW YORK	NY	274
TERRA INT'L, INC.	MERRILL	INSPIRATION RESOURCES CORP.	NEW YORK	NY	274
TERRA INT'L, INC.	SERGEANT BLUFF	INSPIRATION RESOURCES CORP.	NEW YORK	NY	274
TERRA INT'L, INC.	ANTHON	INSPIRATION RESOURCES CORP.	NEW YORK	NY	274
TERRA INT'L, INC.	LENOX	INSPIRATION RESOURCES CORP.	NEW YORK	NY	274
TERRA INT'L, INC.	SIOUX CITY	INSPIRATION RESOURCES CORP.	NEW YORK	NY	274
TERRA INT'L, INC.	WINFIELD	INSPIRATION RESOURCES CORP.	NEW YORK	NY	274
THERMOGAS, HARTLEY	HARTLEY	MAPCO GAS PRODUCTS	TULSA	OK	209
THERMOGAS CO.	SIBLEY	MAPCO GAS PRODUCTS	TULSA	OK	209
THERMOGAS COMPANY OF EDGEWOOD	EDGEWOOD	MAPCO GAS PRODUCTS	TULSA	OK	209
THOMAS & BETTS	IOWA CITY	THOMAS & BETTS CORP.	RARITAN	NJ	493
TREDEGAR IND., INC.	MANCHESTER	ETHYL CORP.	RICHMOND	VA	162
TRIMARK CORPORATION	NEW HAMPTON	SPX CORP.	MUSKEGON	MI	397
UNISYS CORPORATION	CLEAR LAKE	UNISYS CORPORATION	ROSEVILLE	MN	43
UNITED STATES GYPSUM CO.	SPERRY	USG CORP.	CHICAGO	IL	198
UNITED STATES GYPSUM CO.	FORT DODGE	USG CORP.	CHICAGO	IL	198
UNIVERSAL GYM EQUIPMENT, INC.	CEDAR RAPIDS	HANSON INDUSTRIES	ISELIM	NJ	79
UNIVERSAL INDUSTRIES	CEDAR FALLS	UNIVERSAL INDUSTRIES	CORSICANA	TX	155
UNIVERSAL-RUNDLE CORP.	OTTUMWA	NORTEK INC.	PROVIDENCE	RJ	291
VAN CORP CORP.	PELLA	EMERSON ELECTRIC CO.	ST. LOUIS	MO	67
WALNUT GROVE PROD. DIV.	DES MOINES	W. R. GRACE	NEW YORK	NY	76
WATERLOO INDUSTRIES, INC.	WATERLOO	AMERICAN BRANDS, INC.	OLD GREENWICH	CT	64

Fortune 500 in Iowa (continued)

IA Company Name	IA City	Parent	Parent City	State	Fortune 500 Sales Rank (Parent)
WESTPOINT-PEPPERELL	DEWITT	WESTPOINT-PEPPERELL	WESTPOINT	GA	172
WEYERHAEUSER CO.	CEDAR RAPIDS	WEYERHAEUSER CO.	TACOMA	WA	42
WEYERHAEUSER PAPER COMPANY	WATERLOO	WEYERHAEUSER CO.	TACOMA	WA	37
WHITE FARM EQ. CO.	CHARLES CITY	ALLIED PROD. CORP.	CHICAGO	IL	492
WOLVERINE TECHNOLOGIES INC.	GRINNELL	CERTAINTED CORP.	VALLEY FORGE	PA	282
3-M CO.	AMES	3-M CO.	ST. PAUL	MN	32
3-M CO.	KNOXVILLE	3-M CO.	ST. PAUL	MN	32

* This list was compiled by the Iowa Department of Economic Development using Fortune magazine's The Fortune 500, April 23, 1990 issue.

Iowa Establishments, Employees, and Payroll by County, 1986 and 1987

County	1986			1987		
	Number of Establishments	Number of Employees	Annual Payroll (\$000)	Number of Establishments	Number of Employees	Annual Payroll (\$000)
Adair	226	1,593	20,866	225	1,717	23,304
Adams	123	1,241	16,039	118	1,309	16,692
Allamakee	394	3,281	39,272	391	3,393	39,402
Appanoose	309	2,599	36,798	305	2,702	38,271
Audubon	205	1,106	10,869	195	1,123	11,815
Benton	532	3,109	38,742	539	3,059	42,351
Black Hawk	2,999	39,187	668,031	2,965	40,117	752,675
Boone	543	4,529	68,239	531	4,572	62,450
Bremer	580	6,031	93,285	564	5,882	97,510
Buchanan	430	2,772	35,090	434	3,028	39,315
Buena Vista	619	6,229	78,776	623	6,392	84,419
Butler	366	1,704	18,279	362	1,936	21,658
Calhoun	327	1,899	23,807	339	2,026	24,724
Carroll	731	6,667	93,166	727	6,564	97,095
Cass	501	4,161	54,224	489	4,553	60,739
Cedar	455	2,575	28,322	437	2,711	34,078
Cerro Gordo	460	16,519	233,740	1,434	16,848	250,277
Cherokee	399	3,654	49,175	389	3,689	58,288
Chickasaw	359	2,962	43,884	357	3,066	45,439
Clarke	199	1,881	27,083	208	2,197	31,265
Clay	595	5,262	68,394	605	5,207	73,711
Clayton	493	3,324	41,957	504	3,829	49,533
Clinton	1,211	14,472	217,812	1,193	15,003	233,156
Crawford	477	4,774	72,868	456	4,909	76,026
Dallas	617	4,686	65,791	591	4,887	73,972
Davis	174	1,012	12,382	175	1,059	13,261
Decatur	164	2,557	23,864	163	2,122	18,983
Delaware	411	2,659	35,814	400	2,465	36,869
Des Moines	1,193	16,420	288,081	1,189	17,327	314,558
Dickinson	551	3,970	49,489	551	4,282	58,748
Dubuque	2,239	37,126	611,739	2,217	36,620	672,956
Emmet	295	2,502	30,734	288	2,675	32,664
Fayette	616	4,402	55,509	608	4,365	57,493
Floyd	448	4,002	56,137	441	4,213	59,351
Franklin	330	2,337	34,962	328	2,278	33,859
Fremont	196	1,175	13,655	179	1,239	13,821
Greene	303	1,889	23,782	294	2,075	26,249
Grundy	321	2,003	26,093	323	1,937	26,514
Guthrie	262	1,551	15,208	257	1,609	17,537
Hamilton	449	4,840	77,261	441	5,352	79,960
Hancock	342	2,680	35,693	331	2,609	36,525
Hardin	647	5,157	72,020	630	5,332	72,328
Harrison	324	1,927	23,285	325	2,124	24,947
Henry	436	6,065	90,537	470	6,707	107,028
Howard	263	1,730	21,690	248	1,842	21,662

Iowa Establishments, Employees, & Payroll by County, 1986 & 1987 (cont'd)

County	1986			1987		
	Number of Establishments	Number of Employees	Annual Payroll (\$000)	Number of Establishments	Number of Employees	Annual Payroll (\$000)
Humboldt	318	2,321	29,303	311	2,225	31,470
Ida	242	1,970	30,397	240	2,120	33,458
Iowa	422	5,441	81,153	405	6,178	90,786
Jackson	511	3,277	35,068	501	3,365	39,504
Jasper	781	9,521	169,005	754	9,969	192,935
Jefferson	525	5,399	72,653	535	5,162	77,075
Johnson	1,945	23,602	342,535	1,984	24,398	360,928
Jones	472	3,281	40,459	441	3,123	42,701
Keokuk	289	1,636	19,956	284	1,766	22,232
Kossuth	542	4,268	57,410	526	4,481	61,939
Lee	1,052	12,994	227,999	1,032	12,482	219,692
Linn	4,343	73,309	1,410,199	4,348	76,662	1,511,187
Louisa	216	1,245	17,716	226	1,974	27,393
Lucas	189	2,215	40,048	189	2,416	43,305
Lyon	282	1,492	17,419	288	1,598	18,645
Madison	274	1,666	19,183	276	1,746	20,051
Mahaska	545	4,746	61,031	558	4,958	63,374
Marion	655	9,039	148,628	641	9,429	172,293
Marshall	960	13,039	239,424	951	12,731	239,401
Mills	223	1,618	17,943	218	1,686	19,123
Mitchell	312	2,071	24,161	314	2,162	25,835
Monona	291	1,854	20,822	291	1,920	22,435
Monroe	179	1,192	14,525	179	1,333	16,040
Montgomery	341	3,385	46,845	321	3,524	50,523
Muscatine	993	16,330	317,417	976	15,925	327,587
O'Brien	524	3,816	43,527	510	4,082	47,527
Osceola	196	1,221	15,088	199	1,273	17,321
Page	521	4,954	68,149	504	5,163	74,808
Palo Alto	316	1,803	19,527	308	1,898	21,099
Plymouth	617	5,270	76,831	633	5,716	84,510
Pocahontas	359	2,385	25,829	309	2,013	27,585
Polk	9,403	166,886	3,089,390	9,583	171,945	3,335,786
Pottawattamie	1,753	18,303	266,205	1,776	20,629	305,655
Poweshiek	542	5,916	101,764	524	6,339	112,442
Ringgold	127	735	7,371	124	719	7,603
Sac	382	1,979	21,022	382	2,098	22,016
Scott	3,793	56,496	1,060,495	3,903	57,854	1,113,791
Shelby	389	3,200	37,170	381	3,216	38,264
Sioux	790	8,623	101,789	791	8,762	108,767
Story	1,575	18,691	216,567	1,548	18,386	232,284
Tama	394	2,965	38,909	365	2,979	39,732
Taylor	165	941	9,035	179	1,111	11,142
Union	342	3,007	40,108	337	3,406	43,494
Van Buren	166	962	10,960	165	990	12,465
Wapello	802	9,570	146,865	797	9,451	161,703
Warren	570	4,461	50,401	574	4,737	55,677
Washington	563	4,068	51,878	557	4,082	55,353
Wayne	167	1,224	13,662	167	1,140	12,933
Webster	1,180	12,857	178,803	1,149	13,093	190,798
Winnebago	328	5,583	80,841	319	5,504	86,818
Winneshek	537	5,799	70,367	542	5,652	76,353
Woodbury	2,666	36,160	564,218	2,655	34,692	557,121
Worth	175	965	12,220	176	1,085	13,870
Wright	442	3,786	54,992	433	3,895	57,865
Total	71,823	852,247	13,727,312	71,535	874,688	14,727,611

Source: County Business Patterns, 1987, U.S. Department of Commerce, Bureau of the Census.

Manufacturing & Productivity Statistics, by State, 1987 (Preliminary Statistics)

	Value-added	Production Workers			Value-added	Rank	Value-added	Rank	Value-added	Rank
	by mfr. (mil. \$)	Number (1000)	Hours (millions)	Wages (mil. \$)	per Worker Year		per Hour of Labor		per Dollar of Labor	
UNITED STATES	1,166,554.9	12,259.5	24,355.8	251,533	\$95,155		\$47.90		\$4.64	
IOWA	14,502.4	140.2	277.5	3,042.5	\$103,441	13	\$52.26	12	\$4.77	20
ALABAMA	18,591.1	269.5	532.1	4,754.0	\$68,983	44	\$34.94	44	\$3.91	46
ALASKA	827.2	8.5	16.5	189.3	\$99,639	18	\$50.13	19	\$4.37	31
ARIZONA	11,182.3	105.2	213.0	2,136.2	\$106,293	11	\$52.50	11	\$5.23	8
ARKANSAS	10,569.8	161.8	325.4	2,654.1	\$65,321	47	\$32.48	48	\$3.98	42
CALIFORNIA	133,995.6	1,245.5	2,443.2	25,843.8	\$107,584	9	\$54.84	7	\$5.18	10
COLORADO	11,876.1	102.9	203.4	2,277.6	\$115,413	3	\$58.39	3	\$5.21	9
CONNECTICUT	22,342.7	216.3	440.2	4,810.7	\$103,296	14	\$50.76	17	\$4.64	26
DELAWARE	3,933.3	33.5	67.1	783.3	\$117,403	2	\$58.62	2	\$5.02	14
FLORIDA	27,966.2	309.3	616.3	5,236.9	\$90,417	29	\$45.38	31	\$5.34	7
GEORGIA	33,912.5	409.2	821.2	7,194.9	\$82,676	36	\$41.30	37	\$4.71	24
HAWAII	1,411.0	15.3	29.0	254.6	\$92,222	27	\$48.66	22	\$5.54	3
IDAHO	3,055.4	3.8	72.0	693.9	\$80,395	37	\$42.44	36	\$4.40	30
ILLINOIS	63,664.3	60.9	1,227.4	13,391.9	\$104,539	12	\$51.87	13	\$4.75	21
INDIANA	39,536.5	427.5	860.6	9,891.2	\$92,484	26	\$45.94	27	\$4.00	41
KANSAS	12,906.2	120.5	244.7	2,605.8	\$107,104	10	\$52.74	10	\$4.95	15
KENTUCKY	18,109.5	185.3	357.5	3,764.7	\$97,728	20	\$50.66	18	\$4.81	18
LOUISIANA	16,453.8	110.7	225.0	2,585.1	\$148,636	1	\$73.13	1	\$6.36	1
MAINE	5,265.7	77.6	151.4	1,460.0	\$67,861	46	\$34.78	45	\$3.61	48
MARYLAND	14,072.6	140.1	275.0	2,989.8	\$100,450	17	\$51.17	15	\$4.71	25
MASSACHUSETTS	35,796.9	349.4	693.7	7,023.7	\$102,453	15	\$51.60	14	\$5.10	12
MICHIGAN	60,733.2	635.9	1,304.3	17,392.7	\$95,507	22	\$46.56	26	\$3.49	49
MINNESOTA	23,271.8	215.1	428.8	4,510.3	\$108,192	7	\$54.27	9	\$5.16	11
MISSISSIPPI	10,491.2	171.6	337.6	2,624.4	\$61,136	49	\$31.08	49	\$4.00	40
MISSOURI	25,924.6	264.9	520.9	5,414.3	\$97,867	19	\$49.77	20	\$4.79	19
MONTANA	1,115.5	14.9	29.0	297.8	\$74,899	40	\$38.47	39	\$3.75	47
NEBRASKA	5,762.2	63.4	126.6	1,197.5	\$90,883	28	\$45.52	28	\$4.81	17
NEVADA	928.4	15.8	30.8	298.5	\$58,734	50	\$30.14	50	\$3.11	50
NEW HAMPSHIRE	7,818.4	71.7	142.0	1,429.7	\$109,038	6	\$55.06	6	\$5.47	6
NEW JERSEY	42,483.7	394.4	780.6	8,391.2	\$107,718	8	\$54.42	8	\$5.06	13
NEW MEXICO	1,719.3	23.7	47.4	433.3	\$72,532	43	\$36.27	43	\$3.97	43
NEW YORK	79,281.7	723.4	1,403.3	14,356.2	\$109,596	5	\$56.50	4	\$5.52	4
NORTH CAROLINA	47,322.4	638.1	1,260.6	10,221.5	\$74,161	42	\$37.54	42	\$4.63	27
NORTH DAKOTA	985.4	10.4	20.3	179.6	\$94,712	23	\$48.54	23	\$5.49	5
OHIO	71,669.4	713.2	1,447.9	17,496.7	\$100,489	16	\$49.50	21	\$4.10	38
OKLAHOMA	9,835.5	105.6	208.8	2,211.0	\$93,144	24	\$47.10	25	\$4.45	29
OREGON	11,561.2	14.5	285.6	2,953.7	\$79,731	38	\$40.48	38	\$3.91	44
PENNSYLVANIA	57,744.7	681.7	1,338.7	13,727.8	\$84,707	34	\$43.13	35	\$4.21	34
RHODE ISLAND	4,881.8	75.9	148.8	1,248.4	\$64,321	48	\$32.81	47	\$3.91	45
SOUTH CAROLINA	19,118.7	280.9	568.6	4,762.2	\$68,063	45	\$33.62	46	\$4.01	39
SOUTH DAKOTA	1,476.1	19.9	38.9	312.6	\$74,171	41	\$37.95	41	\$4.72	23
TENNESSEE	27,079.4	359.3	707.6	6,283.5	\$75,366	39	\$38.27	40	\$4.31	32
TEXAS	63,920.7	565.3	1,135.2	11,514.1	\$113,074	4	\$56.31	5	\$5.55	2
UTAH	4,858.7	55.4	107.9	1,005.1	\$87,708	33	\$45.03	33	\$4.83	16
VERMONT	2,544.3	30.6	58.3	551.9	\$83,137	35	\$43.64	34	\$4.61	28
VIRGINIA	27,136.0	305.8	602.2	5,732.6	\$88,738	32	\$45.06	32	\$4.73	22
WASHINGTON	18,024.8	184.6	355.0	4,265.8	\$97,644	21	\$50.77	16	\$4.23	33
WEST VIRGINIA	5,423.5	58.5	115.1	1,310.8	\$92,718	25	\$47.12	24	\$4.14	35
WISCONSIN	31,428.2	348.7	691.6	7,597.6	\$90,129	30	\$45.44	29	\$4.14	36
WYOMING	485.7	5.4	10.7	118.4	\$90,000	31	\$45.39	30	\$4.10	37

Source: 1987 Census of Manufactures, Preliminary Report, U.S. Dept. of Commerce, Bureau of the Census.

Value-added Per Manufacturing Worker, Midwest (Dollars Per Year)

	1972	1977	1982	1984	1985	1986
IOWA	\$30,300	\$50,900	\$86,270	\$95,350	\$101,890	\$104,330
Illinois	28,690	46,960	71,240	83,190	87,890	97,780
Indiana	26,820	43,530	63,420	78,440	81,280	86,750
Kansas	28,780	43,960	74,790	85,030	98,740	100,080
Michigan	30,430	47,590	69,400	83,240	83,340	90,380
Minnesota	28,170	45,500	76,600	89,120	94,120	97,670
Missouri	27,250	43,750	71,500	87,460	82,650	93,410
Nebraska	27,430	45,650	69,010	78,450	83,620	85,670
North Dakota	28,270	51,450	67,230	81,960	78,300	76,020
Ohio	28,900	46,580	71,440	84,630	88,380	94,070
South Dakota	22,050	36,620	62,870	64,230	70,930	77,940
Wisconsin	26,190	43,590	68,590	79,212	83,420	86,340
Midwest Avg.	27,780	45,500	71,030	82,520	86,210	90,870
U.S. Avg.	26,170	42,740	66,460	78,140	82,070	88,030

Source: 1986 Annual Survey of Manufactures, U.S. Department of Commerce, Bureau of the Census.

Job Training in Iowa

The Iowa Industrial New Jobs Training Program is unique to Iowa and designed to provide job training services to companies that add new jobs in the state. Companies may be reimbursed up to 50 percent of new employees' wages & fringe benefits for up to a year.

Funds can be used for screening, skills assessment and testing; travel for new employees to training; and costs of training facilities, equipment, materials, and supplies.

The Iowa Industrial New Jobs Training Program is self-supporting. Funds come from revenues generated by a firm's investment in Iowa. The company's incremental property tax and a portion of the new employees' state withholding tax are diverted to pay for initial job training.

In addition to the direct training dollars, companies are eligible for a New Jobs Tax Credit of over \$700 for each new job created.

Job Training Partnership Act is a federal job training program to prepare economically disadvantaged individuals and dislocated workers to enter the labor force. The federal program can be combined with the Iowa Industrial New Jobs Training Program to maximize training dollars.

Iowa's Department of Economic Development helps provide technical assistance to local officials and also helps monitor programs in Iowa to assure compliance with state and federal regulations.

Iowa's vocational education delivery system is responding to the educational needs of business and industry by offering customized training - tailored to the unique needs of the specific business or industry. During 1989, Iowa business and industrial firms and Iowa schools cooperated in the development of training programs for 12,719 Iowans. These partnerships between business and industry and education contribute to economic growth in the state by preparing, upgrading, and retraining individuals for participation in the work force.

These programs were developed to:

- Prepare workers for employment in new and expanding business and industry (NEBIT)
- Increase productivity in existing business and industry (Productivity Enhancement)
- Prepare workers for employment in new or expanding business and industry in accordance with a unique financial design established by the Iowa Legislature (Iowa Industrial New Jobs Training Program)
- Prevent displacement of workers as the result of a business's retooling efforts (The Retraining Program).

Customized Educational Programs Serving Business and Industry, 1988-1989

Program Category	No. of Schools		No. of Companies		No. of Programs		Enrollment	
	1988	1989	1988	1989	1988	1989	1988	1989
NEBIT	5	5	15	8	16	8	272	108
Productivity Enhancement	14	15	55	67	61	80	2,744	4,037
Iowa Industrial New Jobs Training Program	15	15	94	108	20	21	11,051	8,233
Retraining Program	10	7	21	9	23	9	2,146	341
Total	44	42	185	192	120	118	16,213	12,719

Source: Iowa Department of Economic Development, Division of Job Training.

MAJOR INDUSTRIES IN IOWA:

AGRICULTURE



Ten Leading States in Agricultural Production, 1988

Item	Rank										Iowa	
	1	2	3	4	5	6	7	8	9	10	Rank	% of U.S.
Crops - 1988												
Total acres of principal crops harvested*	IOWA	Ill.	Kans.	Minn.	Neb.	Tex.	N.D.	S.D.	Mo.	Ind.	1	8
Corn for grain	IOWA	Neb.	Ill.	Ind.	Minn.	Ohio	Mo.	Kans.	S.D.	Wisc.	1	18
Corn for silage	Wisc.	N.Y.	Pa.	Minn.	IOWA	Cal.	Neb.	Mich.	Va.	Ohio	5	6
Soybeans for beans	IOWA	Ill.	Minn.	Ind.	Mo.	Ohio	Ark.	Neb.	La.	Miss.	1	16
Oats	IOWA	Minn.	S.D.	Wisc.	Pa.	Neb.	Ill.	Ohio	Tex.	N.Y.	1	12
Alfalfa hay & mixtures	Cal.	IOWA	Minn.	Wisc.	Neb.	Idaho	Mich.	Colo.	N.Y.	Kans.	2	8
All hay	Cal.	Minn.	IOWA	Neb.	Tex.	Kans.	Mo.	N.Y.	Wisc.	Pa.	3	5
Livestock on Hand												
January 1, 1988												
All cattle and calves	Tex.	Kans.	Neb.	Okla.	IOWA	Cal.	Mo.	Wisc.	S.D.	Minn.	5	5
Milk cows that have calved	Wisc.	Cal.	N.Y.	Minn.	Pa.	Ohio	Tex.	Mich.	IOWA	Mo.	9	3
Beef cows that have calved	Tex.	Mo.	Okla.	Neb.	S.D.	Kans.	Mont.	IOWA	Fla.	Ky.	8	4
All hogs - December 1988	IOWA	Ill.	Minn.	Ind.	Neb.	Mo.	N.C.	Ohio	S.D.	Kans.	1	25
All sheep and lambs	Tex.	Cal.	Wyo.	Colo.	S.D.	Mont.	N.M.	Utah	Oreg.	IOWA	10	4
Cattle and calves on feed	Tex.	Neb.	Kans.	Colo.	IOWA	Cal.	Ill.	Mn.	Okla.	Ariz.	5	6
Sheep and lambs on feed	Colo.	Tex.	Cal.	Oreg.	Wyo.	Kans.	S.D.	IOWA	Neb.	Ohio	8	4
Livestock Production in 1988												
Cattle and calf production	Tex.	Neb.	Kans.	IOWA	Cal.	Okla.	Colo.	S.D.	Minn.	Wisc.	4	5
Fed cattle marketed	Neb.	Tex.	Kans.	Colo.	IOWA	Cal.	Okla.	Ill.	Idaho	S.D.	5	7
Hog production	IOWA	Ill.	Minn.	Ind.	Neb.	Mo.	N.C.	Ohio	S.D.	Kans.	1	25
Sheep production	Tex.	Cal.	Colo.	S.D.	Wyo.	Mont.	IOWA	Utah	Oreg.	Idaho	7	5
Turkey production	N.C.	Minn.	Cal.	Ark.	Mo.	Va.	Ind.	IOWA	S.C.	Pa.	8	4
Calf crop	Tex.	Mo.	Okla.	Wisc.	Cal.	Neb.	S.D.	IOWA	Kans.	Mont.	8	4
Pig crop	IOWA	Ill.	Minn.	Ind.	Neb.	Mo.	N.C.	Ohio	S.D.	Kans.	1	24
Lamb crop	Tex.	Cal.	Wyo.	S.D.	Mont.	Utah	Colo.	IOWA	Oreg.	N.M.	8	5
Turkeys raised	N.C.	Minn.	Cal.	Ark.	Mo.	Va.	Ind.	Pa.	IOWA	S.C.	9	3
Cattle slaughter	Kans.	Neb.	Tex.	Colo.	IOWA	Wisc.	Ill.	Cal.	Minn.	Pa.	5	6
Hog slaughter	IOWA	Ill.	Mich.	Neb.	Va.	Minn.	Ind.	Mo.	S.D.	Ohio	1	28
Sheep slaughter	Colo.	Cal.	IOWA	Tex.	Kans.	Minn.	Ill.	Mich.	Wash.	N.M.	3	11
Wool production	Tex.	Wyo.	Cal.	Colo.	Mont.	S.D.	Utah	N.M.	IOWA	Oreg.	9	4
Milk production	Wisc.	Cal.	N.Y.	Minn.	Pa.	Mich.	Tex.	Ohio	Wash.	IOWA	10	3
American cheese	Wisc.	Minn.	Cal.	IOWA	Idaho	N.Y.	Mo.	S.D.	N.D.	Utah	4	5
Total cheese	Wisc.	Minn.	Cal.	N.Y.	IOWA	Pa.	Mo.	Idaho	S.D.	Vt.	5	5

*Crops included are: Corn, sorghum, oats, barley, wheat, rice, rye, soybeans, flaxseed, peanuts, sunflower, cotton, all hay, dry beans, potatoes, sweet potatoes, tobacco, sugarcane, and sugar beets

Source: Iowa Agricultural Statistics, 1989, Iowa Department of Agriculture and Land Stewardship

1988 Iowa Farm Receipts

Iowa farmers continued to rank third in total cash receipts, excluding government payments, in 1988. The state ranked third in livestock and livestock products and fourth in crop receipts. Iowa farmers sold farm commodities worth \$9.07 billion in 1988, ahead of the \$8.78 billion in 1987. Livestock and livestock products contributed 56 percent and crops 44 percent of the total receipts for 1988.

Iowa Cash Farm Income, By Commodities

Commodity	Cash Farm Income*			Percent of Cash Farm Income	
	1977	1986	1987	1977	1987
	(1,000 Dollars)			(Percent)	
CROPS					
Corn	1,165,412	2,364,160	1,664,434	16.9	26.2
Soybeans	1,337,318	1,498,716	1,698,416	19.4	16.7
Oats	31,942	19,902	26,039	0.5	0.2
Hay	37,677	4,174	42,743	0.5	0.5
Wheat	9,831	5,560	2,656		
Potatoes	1,801	1,349	1,349		
Vegetable crops	6,788	5,502	5,596	0.9	0.9
Fruits and nuts	1,535	1,946	2,312		
Other crops	6,988	9,311	12,387		
Nursery, greenhouse, and forest	33,049	54,907	62,921		
CROPS TOTAL	2,632,341	4,003,094	3,509,853	38.2	44.5
LIVESTOCK AND LIVESTOCK PRODUCTS					
Hogs	1,965,183	2,629,449	2,735,076	28.5	29.3
Cattle and calves	1,794,565	1,717,941	1,951,754	26.0	19.1
Sheep and lambs	16,741	25,008	26,030		
Wool	2,163	1,374	1,883	0.3	0.3
Dairy products	353,484	450,000	415,030	5.1	5.0
Turkeys	41,516	72,450	67,830	0.6	0.8
Eggs	67,235	58,601	49,983	1.0	0.7
Farm chickens	2,429	1,874	1,908		
Other poultry	10,333	9,962	6,631	0.2	0.1
Other livestock	8,167	14,414	14,561	0.1	0.2
LIVESTOCK TOTAL	4,261,816	4,891,073	5,270,416	61.8	55.5
ALL COMMODITIES	6,894,157	8,984,167	8,780,269	100.0	100.0
GOVERNMENT PAYMENTS**	28,901	1,161,181	1,987,685		
GRAND TOTAL	6,923,058	10,145,348	10,767,954		

*"Cash farm income" relates to the value of quantities of each product sold off the farm. These data show the direct income from crops sold. Income from crops fed to livestock is included as a part of livestock income.

**Includes agricultural conservation, price adjustment payments to farmers, and agricultural production and practice payments.

Source: Iowa Agricultural Statistics, 1989, Iowa Department of Agriculture and Land Stewardship.

Average Per Acre Value of Farmland and Buildings*, Midwest, 1987-1989

State	1987	1988 (as of Feb. 1)	1989
IOWA	\$748	\$890	\$1,041
Illinois	1,040	1,114	1,225
Indiana	931	983	1,061
Kansas	340	368	390
Michigan	833	853	879
Minnesota	493	563	602
Missouri	552	572	606
Nebraska	335	366	421
North Dakota	282	292	301
Ohio	942	991	1,051
South Dakota	178	187	204
Wisconsin	626	630	661
48 States Avg.	547	564	597

*Current dollars

Source: Agricultural Resources, U.S. Department of Agriculture, Economic Research Service

Iowa Realized Gross Farm Income

Calendar Year	Cash Receipts From Farm Marketings			Government Payments	Non-money Income	Other Farm Income
	Livestock	Crops	Total crops & livestock			
(Million Dollars)						
1978	5,449.5	3,104.3	8,553.9	271.0	535.9	74.6
1979	5,543.5	3,719.0	9,262.5	69.2	557.1	80.9
1980	5,311.5	4,950.5	10,262.1	44.6	654.9	76.4
1981	5,678.8	4,941.7	10,620.5	58.2	727.5	84.6
1982	5,906.6	4,108.8	10,015.4	215.9	702.3	301.7
1983	5,140.3	4,102.1	9,242.4	925.9	602.1	282.1
1984	5,014.6	3,725.3	8,739.9	742.8	527.1	191.8
1985	4,883.1	4,569.4	9,452.5	691.1	393.3	226.4
1986	4,981.1	4,003.1	8,984.2	1,161.2	311.8	196.3
1987	5,270.4	3,509.9	8,780.3	1,987.7	282.8	241.8
1988*	5,045.1	4,028.9	9,074.0	1,665.0	N/A	N/A

*Preliminary; data not all available at time of publication.

Source: Iowa Agricultural Statistics, 1989, Iowa Department of Agriculture and Land Stewardship.

Iowa Realized Net Farm Income

Calendar Year	Realized Gross Farm Income	Farm Production Expenses	Realized Net Farm Income		Net Change In Farm Inventories	Total Net Farm Income	
			Total, All Farms	Average Per Farm		Total, all Farms	Average Per Farm
			Million dollars			Dollars	Million dollars
1978	9,435.4	7,824.3	1,611.1	13,098.0	414.1	2,025.1	16,464.0
1979	9,969.7	9,212.7	757.0	6,256.0	614.2	1,371.1	11,331.0
1980	11,038.0	9,971.1	1,066.9	8,966.0	-646.1	420.8	3,536.0
1981	11,490.8	9,908.9	1,581.9	13,406.0	259.6	1,841.5	15,606.0
1982	11,235.3	9,930.7	1,304.6	11,150.0	-441.6	862.9	7,375.0
1983	11,052.5	9,247.8	1,804.7	15,693.0	-2009.9	-205.1	-1,783.0
1984	10,201.6	9,779.5	422.1	3,735.0	873.3	1,295.5	11,465.0
1985	10,763.4	8,955.8	1,807.6	16,285.0	-139.4	1,668.1	15,028.0
1986	10,653.5	8,201.2	2,452.3	22,498.0	-131.5	2,320.8	21,292.0
1987	11,292.5	8,283.3	3,009.2	28,123.0	-232.3	2,776.8	25,951.0

Source: Iowa Agricultural Statistics, 1989, Iowa Department of Agriculture and Land Stewardship.

Cash Receipts from Marketings: Ten Leading States, 1987-1988

Source of Cash Receipts*	1	2	3	4	Rank	6	7	8	9	10
1987										
Crops	Cal.	Fla.	Ill.	IOWA	Texas	Minn.	Ind.	Neb.	Wash.	Ohio
Livestock and livestock products	Texas	IOWA	Neb.	Cal.	Wisc.	Kans.	Minn.	Colo.	Pa.	Ill.
Total	Cal.	Texas	IOWA	Neb.	Ill.	Minn.	Kans.	Fla.	Wisc.	Ind.
1988**										
Crops	Cal.	Fla.	Ill.	IOWA	Texas	Minn.	Neb.	Ind.	Kans.	Wash.
Livestock and livestock products	Texas	Neb.	IOWA	Cal.	Wisc.	Kans.	Minn.	Colo.	Pa.	Okla.
Total	Cal.	Texas	IOWA	Neb.	Kans.	Ill.	Minn.	Fla.	Wisc.	N.C.

*Excludes government payments.

**Preliminary

Source: Iowa Agricultural Statistics, 1989, Iowa Department of Agriculture & Land Stewardship

Iowa Farms*: Number, Average Size, and Land, 1975-1988

Year	Number of Farms	Average Size	Land in Farms
	Thousands	Acres	Mill. acres
1975	130	262	34.1
1976	127	267	33.9
1977	125	270	33.8
1978	123	275	33.8
1979	121	279	33.8
1980	119	284	33.8
1981	118	286	33.7
1982	117	288	33.7
1983	115	293	33.7
1984	113	297	33.6
1985	111	303	33.6
1986	109	308	33.6
1987	107	313	33.5
1988**	107	313	33.5

*The "New Definition" of a farm starting in 1975, includes places which had annual sales of agricultural products of \$1,000 or more. This is the same definition used by the Department of Commerce, Bureau of the Census, for the 1978 Census of Agriculture.

**Preliminary

Source: Iowa Agricultural Statistics, 1989, Iowa Department of Agriculture and Land Stewardship.

Iowa Farmers by Age Group; Farms by Type of Organization

Operators by age group	1969	1974	1978	1982	1987
Under 25 years	3,600	4,280	6,339	5,602	2,852
25 to 34 years	18,734	15,835	19,205	20,346	17,458
35 to 44 years	31,235	24,153	23,918	22,548	21,282
45 to 54 years	39,255	33,688	30,341	26,104	21,744
55 to 64 years	33,543	31,404	28,959	27,594	25,287
65 years and over	14,347	15,335	12,577	13,219	16,557
Average age	48.7	49.3	47.5	47.6	49.3
Iowa Farms by Type of Organization, 1987	Number	Percent of Total			
Individual or Family	89,188	84.8%			
Partnership	11,088	10.5%			
Corporation	4,404	4.2%			
Other	500	0.5%			

Source: 1987 Census of Agriculture, U.S. Department of Commerce, Bureau of Census.

Change in Iowa Farmland Values, 1966-1988

Year	Value Per Acre	Dollar Change	Percentage Change
1966	\$354	\$36	11.4
1967	\$397	\$42	12.0
1968	\$409	\$12	3.0
1969	\$419	\$10	2.5
1970	\$419	\$0	0.0
1971	\$430	\$11	2.6
1972	\$482	\$52	12.0
1973	\$635	\$154	31.9
1974	\$834	\$199	31.3
1975	\$1,095	\$261	31.3
1976	\$1,368	\$273	24.9
1977	\$1,450	\$82	6.0
1978	\$1,646	\$196	13.5
1979	\$1,958	\$312	19.0
1980	\$2,066	\$108	5.5
1981	\$2,147	\$82	3.9
1982	\$1,801	(\$346)	-16.1
1983	\$1,691	(\$110)	-6.1
1984	\$1,357	(\$334)	-19.8
1985	\$948	(\$409)	-30.2
1986	\$787	(\$161)	-17.0
1987	\$875	\$88	11.2
1988	\$1,054	\$179	20.4

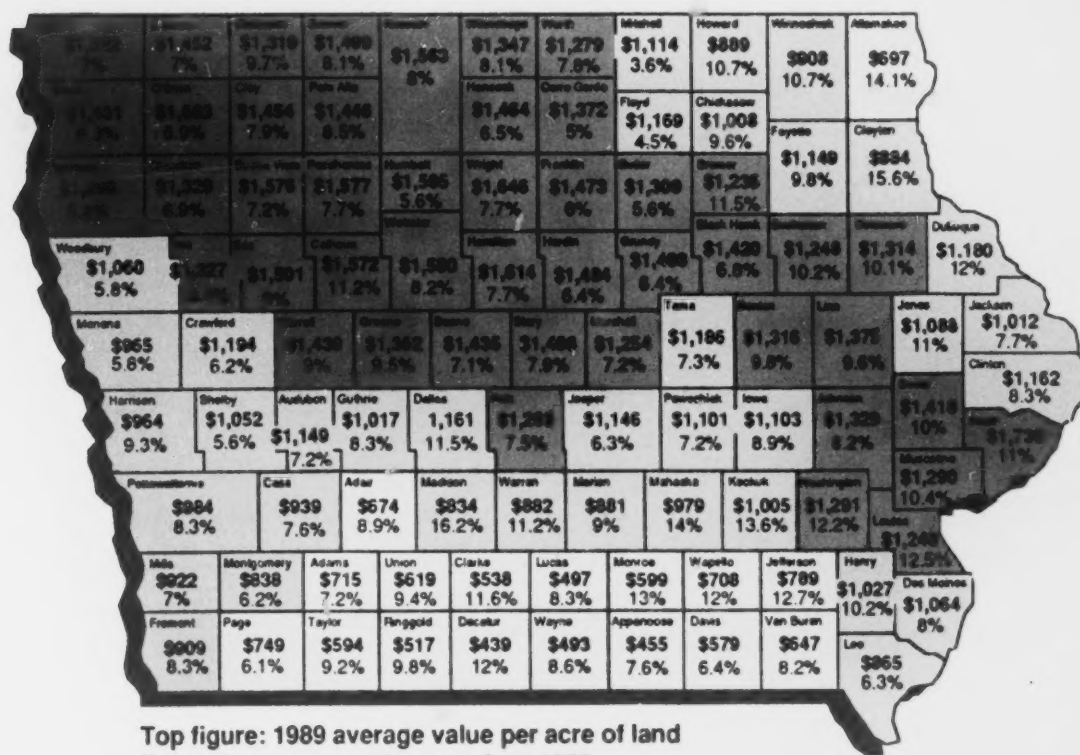
Source: Iowa State University Extension Service

Comparative Iowa Land Values by County, 1988-1989

County	Per Acre Land Value 1988	Per Acre Land Value 1989	Percent Increase	County	Per Acre Land Value 1988	Per Acre Land Value 1989	Percent Increase
State Average	\$1,054	\$1,139	8.1	Jasper	\$1,078	\$1,146	6.3
Adair	\$619	\$674	8.9	Jefferson	\$700	\$789	12.7
Adams	\$667	\$715	7.2	Johnson	\$1,228	\$1,329	8.2
Allamakee	\$611	\$697	14.1	Jones	\$980	\$1,088	11.0
Appanoose	\$423	\$455	7.6	Keokuk	\$885	\$1,005	13.6
Audubon	\$1,072	\$1,149	7.2	Kossuth	\$1,447	\$1,563	8.0
Benton	\$1,199	\$1,316	9.8	Lee	\$814	\$865	6.3
Black Hawk	\$1,330	\$1,420	6.8	Linn	\$1,254	\$1,375	9.6
Boone	\$1,340	\$1,435	7.1	Louisia	\$1,108	\$1,246	12.5
Bremer	\$1,108	\$1,235	11.5	Lucas	\$459	\$497	8.3
Buchanan	\$1,132	\$1,248	10.2	Lyon	\$1,235	\$1,322	7.0
Buena Vista	\$1,470	\$1,576	7.2	Madison	\$718	\$834	16.2
Butler	\$1,239	\$1,309	5.6	Mahaska	\$859	\$979	14.0
Calhoun	\$1,414	\$1,572	11.2	Marion	\$808	\$881	9.0
Carroll	\$1,320	\$1,439	9.0	Marshall	\$1,170	\$1,254	7.2
Cass	\$873	\$939	7.6	Mills	\$862	\$922	7.0
Cedar	\$1,289	\$1,418	10.0	Winnebago	\$1,075	\$1,114	3.6
Cerro Gordo	\$1,307	\$1,372	5.0	Monona	\$912	\$965	5.8
Cherokee	\$1,243	\$1,329	6.9	Monroe	\$530	\$599	13.0
Chickasaw	\$920	\$1,008	9.6	Montgomery	\$789	\$838	6.2
Clarke	\$482	\$538	11.6	Muscatine	\$1,169	\$1,290	10.4
Clay	\$1,348	\$1,454	7.9	Osceola	\$1,357	\$1,452	7.0
Clayton	\$765	\$884	15.6	O'Brien	\$1,555	\$1,663	6.9
Clinton	\$1,073	\$1,162	8.3	Page	\$706	\$749	6.1
Crawford	\$1,124	\$1,194	6.2	Palo Alto	\$1,333	\$1,446	8.5
Dallas	\$1,041	\$1,161	11.5	Plymouth	\$1,224	\$1,290	5.4
Davis	\$544	\$579	6.4	Pocahontas	\$1,464	\$1,577	7.7
Decatur	\$392	\$439	12.0	Polk	\$1,177	\$1,265	7.5
Delaware	\$1,194	\$1,314	10.1	Pottawattamie	\$909	\$984	8.3
Des Moines	\$985	\$1,064	8.0	Poweshiek	\$1,027	\$1,101	7.2
Dickinson	\$1,202	\$1,319	9.7	Ringgold	\$471	\$517	9.8
Dubuque	\$1,054	\$1,180	12.0	Sac	\$1,377	\$1,501	9.0
Emmet	\$1,387	\$1,499	8.1	Scott	\$1,566	\$1,739	11.0
Fayette	\$1,046	\$1,149	9.8	Shelby	\$996	\$1,052	5.6
Floyd	\$1,119	\$1,169	4.5	Sioux	\$1,346	\$1,431	6.3
Franklin	\$1,389	\$1,473	6.0	Story	\$1,379	\$1,488	7.9
Fremont	\$839	\$909	8.3	Tama	\$1,105	\$1,186	7.3
Greene	\$1,244	\$1,362	9.5	Taylor	\$544	\$594	9.2
Grundy	\$1,403	\$1,493	6.4	Union	\$566	\$619	9.4
Guthrie	\$939	\$1,017	8.3	Van Buren	\$598	\$647	8.2
Hamilton	\$1,498	\$1,614	7.7	Wapello	\$632	\$708	12.0
Hancock	\$1,375	\$1,464	6.5	Warren	\$793	\$882	11.2
Hardin	\$1,395	\$1,484	6.4	Washington	\$1,151	\$1,291	12.2
Hamilton	\$882	\$964	9.3	Wayne	\$454	\$493	8.6
Henry	\$932	\$1,027	10.2	Webster	\$1,460	\$1,580	8.2
Howard	\$803	\$889	10.7	Winnebago	\$1,246	\$1,347	8.1
Humboldt	\$1,510	\$1,595	5.6	Winneshek	\$820	\$908	10.7
Ida	\$1,247	\$1,327	6.4	Woodbury	\$1,002	\$1,060	5.8
Iowa	\$1,013	\$1,103	8.9	Worth	\$1,187	\$1,279	7.8
Jackson	\$940	\$1,012	7.7	Wright	\$1,529	\$1,646	7.7

Source: Iowa State University Extension Service

Comparative Iowa Land Values



Top figure: 1989 average value per acre of land

Bottom figure: percent increase from 1988

 Under \$800 per acre  \$800 - \$1,200 per acre  Over \$1,200 per acre

Source: Iowa State University Extension Service

Iowa Farms: Number and Average Size by County, 1988

County and District	Number of Farms			Average Acres per Farm		
	1985	1986	1988	1985	1986	1988
Buena Vista	1,140	1,120	1,120	309	314	314
Cherokee	1,170	1,150	1,110	304	309	320
Clay	1,010	990	890	342	349	388
Dickinson	630	620	610	360	366	368
Emmet	690	680	620	349	354	388
Lyon	1,330	1,300	1,260	273	279	288
O'Brien	1,280	1,250	1,260	275	282	280
Osceola	800	780	750	308	316	327
Palo Alto	980	960	950	356	363	367
Plymouth	1,800	1,760	1,770	297	304	301
Pocahontas	1,070	1,050	1,010	332	338	351
Sioux	2,000	1,940	2,050	234	241	228
NW District	13,900	13,600	13,400	301	308	312
Butler	1,420	1,400	1,320	249	252	267
Cerro Gordo	1,000	980	950	338	345	354
Floyd	1,060	1,040	1,010	286	292	300
Franklin	1,120	1,100	1,030	320	326	347
Hancock	1,130	1,110	1,070	310	315	326
Humboldt	820	810	770	326	330	347
Kossuth	1,820	1,790	1,750	330	335	342
Mitchell	970	950	960	298	304	300
Winnebago	820	810	760	297	300	318
Worth	770	760	680	315	319	356
Wright	970	950	900	367	375	395
NC District	11,900	11,700	11,200	311	316	329
Allamakee	1,100	1,090	1,090	340	343	343
Black Hawk	1,310	1,300	1,300	235	237	236
Bremer	1,240	1,230	1,170	210	212	222
Buchanan	1,370	1,360	1,360	252	254	254
Chickasaw	1,140	1,130	1,080	268	270	283
Clayton	1,680	1,680	1,700	277	277	274
Delaware	1,430	1,420	1,460	244	246	239
Dubuque	1,670	1,660	1,680	209	210	207
Fayette	1,580	1,570	1,540	279	281	286
Howard	1,020	1,010	960	283	286	300
Winneshiek	1,660	1,650	1,660	253	254	253
NE District	15,200	15,100	15,000	257	259	260
Audubon	870	850	870	319	326	319
Calhoun	1,120	1,100	1,010	314	320	347
Carroll	1,350	1,320	1,350	262	266	260
Crawford	1,450	1,420	1,370	306	313	323
Greene	1,000	980	970	351	362	365
Guthrie	1,060	1,040	980	344	350	371
Harrison	1,150	1,130	1,050	370	376	402
Ida	840	820	800	320	327	335
Monona	900	880	870	468	479	481
Sac	1,100	1,080	1,060	323	329	333
Shelby	1,260	1,230	1,200	290	297	304
Woodbury	1,500	1,450	1,370	340	352	372
WC District	13,600	13,300	12,900	330	338	347
Boone	1,110	1,090	1,040	304	310	319
Dallas	1,160	1,140	1,100	298	303	314
Grundy	1,090	1,070	1,050	287	292	298
Hamilton	1,110	1,090	1,040	316	322	337
Hardin	1,160	1,140	1,080	299	305	321
Jasper	1,510	1,460	1,480	293	301	296
Marshall	1,150	1,130	1,090	299	305	316
Polk	1,060	1,040	1,020	243	260	248
Poweshiek	1,110	1,090	1,060	322	328	337
Story	1,200	1,180	1,160	278	283	286
Tama	1,440	1,400	1,430	304	313	306
Webster	1,300	1,270	1,250	326	334	338
C District	14,400	14,100	13,800	298	304	310

Iowa Farms: Number and Average Size by County, 1988 (continued)

County and District	Number of Farms			Average Acres per Farm		
	1985	1986	1988	1985	1986	1988
Benton	1,520	1,490	1,470	286	292	294
Cedar	1,270	1,240	1,200	277	284	293
Clinton	1,510	1,480	1,470	271	276	278
Iowa	1,110	1,090	1,080	325	331	334
Jackson	1,360	1,330	1,380	279	285	274
Johnson	1,450	1,420	1,390	233	238	237
Jones	1,250	1,220	1,190	279	286	293
Linn	1,710	1,650	1,710	228	236	226
Muscatine	960	940	920	261	266	272
Scott	1,060	1,040	990	225	230	240
EC District	13,200	12,900	12,800	265	271	272
Adair	1,000	980	980	356	364	363
Adams	700	680	700	378	389	378
Cass	1,010	990	950	340	351	365
Fremont	730	710	730	428	441	427
Mills	650	640	650	411	418	411
Montgomery	720	700	710	362	373	367
Page	1,000	980	1,038	329	335	318
Pottawattamie	1,740	1,690	1,670	323	333	335
Taylor	850	830	780	397	401	427
SW District	8,400	8,200	8,200	361	370	369
Appanoose	880	860	890	329	337	322
Clarke	740	730	710	357	362	372
Decatur	740	730	730	439	445	445
Lucas	740	730	700	345	350	359
Madison	1,120	1,100	1,080	310	316	322
Marion	1,200	1,170	1,150	257	264	264
Monroe	730	720	750	362	367	352
Ringgold	750	740	710	450	456	475
Union	750	740	700	346	351	371
Warren	1,350	1,300	1,320	248	257	251
Wayne	800	780	760	405	415	425
SC District	9,800	9,600	9,500	338	345	347
Davis	930	920	940	334	338	334
Des Moines	790	780	770	277	280	284
Henry	930	920	910	282	285	288
Jefferson	870	860	790	303	306	332
Keokuk	1,160	1,158	1,058	307	310	339
Lee	1,030	1,020	1,010	286	289	292
Louisia	670	670	640	348	348	363
Mahaska	1,220	1,210	1,200	288	290	289
Van Buren	870	860	800	341	345	370
Wapello	930	920	910	268	271	274
Washington	1,200	1,190	1,180	287	289	291
SE District	10,600	10,500	10,200	300	303	311
State	111,000	109,000	107,000	303	308	313

Source: Iowa Agricultural Statistics, 1989, Iowa Department of Agriculture and Land Stewardship

Yield and Production of Corn and Soybeans by County, 1987 & 1988

County and District	Corn				Corn for Silage				Soybeans			
	1987		1988		1987		1988		1987		1988	
	Yield (bu/Acre)	Production (000 bu)	Yield (bu/Acre)	Production (000 bu)	Yield (bu/Acre)	Production (000 bu)	Yield (bu/Acre)	Production (000 bu)	Yield (bu/Acre)	Production (000 bu)	Yield (bu/Acre)	Production (000 bu)
Buena Vista	133.7	15,833	113.0	15,335	15.2	36	15.7	36	42.4	4,995	38.9	4,961
Cherokee	128.4	13,561	120.3	15,015	16.1	29	17.3	38	44.0	4,063	43.0	4,497
Clay	140.0	14,420	100.3	11,600	19.7	57	14.2	61	42.2	5,133	35.7	4,592
Dickinson	132.6	8,855	106.7	7,887	13.0	13	10.3	41	41.0	2,928	33.6	2,450
Emmet	141.9	12,360	111.9	10,874	17.5	14	11.3	9	43.8	4,015	35.0	3,272
Lyon	122.3	14,138	71.5	8,776	15.5	113	9.9	101	42.0	4,255	33.1	3,695
O'Brien	133.8	16,416	123.9	17,217	16.4	36	15.0	30	43.5	5,371	43.1	5,710
Osceola	139.9	11,583	110.1	10,460	19.0	19	14.5	29	43.6	4,045	37.5	3,739
Palo Alto	140.6	18,250	107.2	14,852	17.3	19	15.4	54	44.8	5,530	36.0	4,585
Plymouth	119.0	21,571	71.0	13,298	13.1	47	9.5	73	43.5	5,230	32.0	4,339
Pocahontas	135.8	16,477	107.9	15,025	18.3	11	12.9	9	37.7	5,189	36.5	5,423
Sioux	116.2	20,184	90.0	18,158	13.5	138	10.1	144	44.6	5,236	40.8	4,984
NW District	130.4	183,648	100.9	158,497	15.3	534	11.6	625	42.7	55,990	37.2	52,247
Butler	127.1	15,837	94.5	12,656	13.8	29	11.1	21	44.5	3,816	31.5	2,774
Cerro	131.3	16,170	100.4	14,080	16.0	8	11.7	7	43.4	4,709	34.1	3,307
Gordo	128.5	13,084	84.0	9,328	16.2	34	8.7	26	43.2	4,310	29.9	2,781
Floyd	140.5	18,420	110.8	16,329	15.0	9	11.7	7	44.8	5,719	33.7	4,084
Franklin	136.6	16,338	115.4	15,770	19.2	23	13.8	18	43.0	5,351	35.5	4,132
Hancock	140.0	12,714	107.2	11,293	14.4	13	12.9	22	45.2	4,506	34.8	3,710
Humboldt	143.5	29,087	122.0	28,633	14.4	13	16.8	32	45.3	11,469	37.4	8,576
Kossuth	127.6	11,574	82.6	8,493	17.6	53	8.4	52	42.8	3,355	29.0	2,156
Mitchell	135.4	12,076	118.9	11,796	15.0	12	11.3	9	39.4	3,550	34.5	2,849
Winnnebago	138.2	11,204	99.2	8,999	18.9	17	13.8	18	42.6	3,399	33.0	2,375
Wright	143.8	17,280	111.6	15,745	17.1	12	12.9	9	44.4	6,852	35.3	5,019
NC District	136.3	173,784	106.1	153,122	16.3	228	11.1	221	43.8	57,036	34.2	41,763
Allamakee	145.5	8,876	66.3	3,845	16.9	83	8.6	95	43.1	155	29.7	175
Black Hawk	143.7	16,901	74.4	9,659	20.8	25	7.3	8	49.7	4,531	27.4	2,319
Bremer	135.0	11,878	70.5	6,578	19.4	33	10.4	80	44.3	2,589	26.0	1,404
Buchanan	144.2	20,669	75.5	10,981	18.1	29	11.3	51	48.1	3,060	27.4	1,905
Chickasaw	132.7	14,261	69.2	7,193	13.8	33	7.5	59	42.1	2,292	25.0	1,577
Clayton	145.1	18,438	67.0	7,610	17.1	113	9.5	181	47.0	216	24.3	153
Delaware	139.6	20,213	65.1	9,129	18.7	56	8.6	139	49.8	1,265	26.0	716
Dubuque	133.3	13,694	64.4	5,563	18.6	91	9.2	249	49.2	128	26.9	140
Fayette	143.2	20,065	79.2	12,101	18.9	123	11.8	180	46.7	3,483	30.1	2,108
Howard	132.8	10,994	63.1	5,634	13.6	38	7.6	41	43.0	2,861	23.9	1,643
Winnebago	137.1	14,413	69.3	6,234	18.3	190	10.2	255	44.2	761	25.6	510
NE District	139.7	107,402	70.3	84,527	17.7	814	9.6	1,338	46.2	21,341	26.6	12,650
Audubon	135.7	12,860	91.8	9,002	15.3	29	12.8	23	45.6	2,895	32.3	2,127
Calhoun	146.7	19,511	123.4	17,690	15.0	9	15.0	9	47.0	6,593	37.0	5,478
Carroll	137.4	16,930	116.0	15,914	15.2	41	16.4	41	45.2	4,406	37.4	4,352
Crawford	136.7	17,958	103.7	15,103	16.4	23	13.1	17	41.6	3,442	38.0	4,006
Greene	148.8	16,097	99.7	12,381	17.1	12	14.3	10	48.0	6,404	27.8	3,124
Guthrie	134.2	12,924	93.6	9,843	18.3	11	10.0	7	44.7	2,916	28.9	2,120
Harrison	138.2	17,612	91.1	12,638	14.6	19	12.5	15	40.3	3,956	29.0	3,436
Ida	127.6	12,339	119.7	12,600	14.1	31	12.5	25	43.1	3,030	39.4	2,876
Monona	125.6	15,864	95.7	13,138	15.2	85	12.2	62	41.6	4,182	32.0	3,531
Sac	139.2	15,957	124.0	16,577	15.4	20	14.2	17	44.5	4,997	39.3	4,659
Shelby	130.4	17,708	94.5	14,009	17.8	73	11.1	41	44.1	3,667	30.9	2,905
Woodbury	122.1	19,824	79.9	14,446	14.4	52	11.2	58	40.1	3,362	30.3	2,813
WC District	134.9	195,584	102.2	163,386	15.6	405	12.5	325	44.1	49,850	33.6	42,127
Boone	143.5	14,510	87.1	10,199	16.0	24	12.9	18	46.3	5,073	24.0	2,699
Dallas	139.4	14,433	88.4	10,117	18.0	9	8.7	13	46.0	4,629	24.6	2,528
Grundy	129.1	15,992	89.9	12,500	19.5	39	11.0	23	49.8	5,805	35.3	3,724
Hamilton	140.9	16,823	80.6	10,971	14.0	7	11.7	7	42.8	5,076	24.4	3,160
Hardin	141.4	17,871	83.9	11,576	18.7	28	10.0	28	46.9	5,094	26.7	2,910
Jasper	138.7	17,775	76.2	10,906	18.0	27	11.2	38	46.8	5,008	31.5	3,134
Marshall	142.4	16,950	70.5	8,636	18.9	17	8.9	25	50.5	4,413	27.5	2,263
Polk	144.3	10,897	86.6	7,283	20.0	8	11.3	9	46.4	3,441	25.7	1,974
Poweshiek	130.2	12,512	51.8	4,753	19.5	37	6.8	93	47.2	3,757	24.5	1,888
Story	144.7	17,170	85.5	11,475	16.5	28	12.5	20	47.7	5,701	24.1	2,898
Tama	137.8	18,420	89.9	13,475	18.5	37	11.2	29	47.8	5,145	34.7	3,461
Webster	143.1	18,650	94.3	14,235	16.7	10	14.1	24	44.0	7,241	27.9	4,695
C District	139.6	191,903	82.9	126,126	18.1	271	9.3	327	46.7	60,383	27.5	35,334

Yield and Production of Corn and Soybeans by County, (continued)

County and District	Corn				Corn for Silage				Soybeans			
	1987 Yield (bu/Acre)	1987 Production (000 bu)	1988 Yield (bu/Acre)	1988 Production (000 bu)	1987 Yield (bu/Acre)	1987 Production (000 bu)	1988 Yield (bu/Acre)	1988 Production (000 bu)	1987 Yield (bu/Acre)	1987 Production (000 bu)	1988 Yield (bu/Acre)	1988 Production (000 bu)
Benton	135.3	20,424	57.6	9,008	19.7	69	8.9	73	48.2	6,002	24.2	3,135
Cedar	114.3	15,008	61.5	9,139	12.3	16	9.5	40	46.4	3,383	34.5	2,466
Clinton	106.5	17,762	53.4	8,867	16.1	90	8.3	106	45.2	3,061	28.1	1,831
Iowa	122.1	14,204	32.0	3,120	18.4	46	5.0	110	44.1	2,089	22.3	1,085
Jackson	116.0	9,566	45.2	3,375	13.2	82	7.0	146	46.7	378	23.5	235
Johnson	109.0	11,173	46.3	4,943	13.7	26	7.1	49	40.0	2,321	26.6	1,461
Jones	125.2	14,931	49.9	5,833	17.6	111	7.7	108	46.5	1,939	23.6	1,018
Linn	126.3	14,295	48.2	6,081	14.3	20	7.5	59	45.8	4,001	22.5	1,902
Muscatine	93.2	8,822	53.2	5,000	14.0	42	7.7	24	39.4	2,063	28.0	1,525
Scott	122.3	12,892	64.0	6,976	18.5	24	8.1	56	47.3	2,132	35.9	1,511
EC District	117.6	139,077	52.1	62,342	15.9	526	7.2	771	45.2	27,369	26.8	16,169
Adair	132.8	11,299	86.4	7,950	16.9	44	9.1	63	43.4	2,588	28.6	1,930
Adams	121.7	5,623	73.7	4,004	16.7	10	8.3	5	41.3	1,902	22.7	948
Cass	137.8	13,804	91.8	9,998	14.2	34	12.5	86	43.5	3,038	28.8	2,412
Fremont	122.6	10,446	112.0	10,315	15.0	12	13.8	11	39.9	4,138	32.7	3,381
Mills	128.4	9,864	108.0	9,000	13.3	8	11.7	7	38.2	3,648	27.4	2,330
Montgomery	123.2	8,499	95.9	7,512	16.7	10	11.7	7	37.1	2,746	28.4	1,980
Page	114.1	8,524	77.1	6,557	15.5	31	10.5	21	37.2	3,113	22.5	2,022
Pottawattamie	136.9	25,540	99.1	19,975	17.5	49	10.9	35	41.0	6,390	27.5	4,482
Taylor	113.0	6,690	60.2	3,401	13.3	8	7.9	27	36.8	2,477	19.9	1,135
SW District	128.1	100,399	92.4	78,712	15.8	206	10.5	262	39.7	30,040	27.1	20,620
Appanoose	111.7	2,826	50.0	1,165	15.7	11	8.4	53	40.7	1,145	23.3	593
Clarke	104.1	3,383	38.9	962	15.0	33	6.6	99	37.4	1,044	25.8	643
Decatur	107.2	4,396	39.0	807	14.7	44	6.6	115	39.0	1,439	19.0	597
Lucas	104.7	3,319	46.3	1,376	13.9	43	7.9	41	38.8	978	28.3	635
Madison	120.1	8,803	70.5	4,878	16.9	27	10.5	59	42.8	2,306	24.6	1,320
Marion	129.4	9,793	81.6	6,354	17.5	21	11.7	35	43.8	2,358	33.7	1,923
Monroe	112.3	3,572	46.3	1,226	12.5	15	6.7	47	40.8	905	23.2	443
Ringgold	113.4	5,761	44.8	2,064	16.4	18	7.6	66	39.1	1,907	22.9	969
Union	117.8	5,690	66.8	3,179	15.7	11	9.8	62	43.9	1,435	23.1	768
Warren	127.3	9,778	82.4	5,931	18.2	20	10.8	78	42.6	2,141	30.1	1,555
Wayne	115.0	6,302	44.5	1,973	14.5	16	6.8	48	37.2	1,612	23.2	947
SC District	117.4	63,623	62.1	29,915	15.2	259	7.9	702	40.8	17,270	25.9	10,393
Davis	93.0	3,739	52.8	2,106	12.1	17	7.4	26	37.3	1,541	24.6	818
Des Moines	96.0	6,922	65.1	4,751	12.7	28	9.0	26	37.8	1,661	34.2	1,719
Henry	102.3	7,567	61.1	4,964	10.0	8	8.4	16	39.0	2,419	32.0	1,692
Jefferson	104.0	6,874	57.4	3,469	9.4	15	8.0	60	37.4	2,399	24.0	1,291
Keokuk	126.5	12,977	39.6	4,220	12.7	14	5.6	30	45.7	2,712	26.0	1,690
Lee	94.3	7,424	38.7	2,755	12.5	25	5.4	46	34.0	2,068	28.1	1,599
Louisa	92.9	7,281	49.8	4,155	8.8	7	7.1	10	34.3	1,836	26.6	1,439
Mahaska	133.1	12,672	56.5	5,917	18.0	81	8.0	68	44.1	3,376	28.9	2,295
Van Buren	102.2	4,867	40.6	1,931	14.1	45	5.8	19	36.5	1,576	24.4	913
Wapello	113.3	4,882	63.6	2,852	11.1	20	8.1	43	40.8	1,832	28.8	1,288
Washington	111.9	12,985	42.0	5,053	10.6	17	5.9	34	43.8	2,951	29.0	1,953
SE District	108.3	88,190	50.6	42,173	13.2	277	7.0	378	39.5	24,371	28.1	16,697
State	130.0	1,306,500	84.0	898,800	16.0	3,520	9.0	4,950	43.5	343,650	31.0	248,000

Source: Iowa Agricultural Statistics, 1989, Iowa Department of Agriculture and Land Stewardship.

Hogs & Grain Fed Cattle Marketed, Milk & Beef Cows on Farms, by County

County and District	Hogs Marketed (000 Head) 1988	Grain Fed Cattle Marketed 1988	Milk Cows (Jan. 1, 1989)	Beef Cows
Buena Vista	350	22,500	500	6,000
Cherokee	288	39,000	1,800	13,500
Clay	187	20,000	300	6,200
Dickinson	103	20,000	900	4,800
Emmet	92	10,000	100	5,400
Lyon	365	49,000	5,000	13,000
O'Brien	370	54,500	1,800	8,200
Osceola	170	19,000	1,600	2,900
Palo Alto	199	12,500	700	4,000
Plymouth	582	55,000	2,000	17,000
Pocahontas	206	13,500	300	3,000
Sioux	848	155,000	10,000	13,000
NW District	3,760	470,000	25,000	97,000
Butler	353	14,000	3,900	6,800
Cerro Gordo	235	5,700	700	4,500
Floyd	202	8,800	1,500	5,500
Franklin	340	10,000	900	5,100
Hancock	254	10,500	1,100	2,900
Humboldt	169	11,000	500	3,500
Kossuth	391	19,500	2,500	6,500
Mitchell	250	19,000	3,700	4,000
Winnebago	130	4,500	1,300	1,600
Worth	112	5,500	900	3,100
Wright	143	6,500	300	1,700
NC District	2,579	115,000	17,300	45,200
Allamakee	174	14,500	22,000	23,000
Black Hawk	254	6,500	3,300	4,700
Bremer	165	7,100	10,500	4,500
Buchanan	369	10,500	6,500	7,500
Chickasaw	242	11,500	6,700	7,800
Clayton	457	19,000	29,000	24,000
Delaware	689	15,500	26,000	8,500
Dubuque	477	25,500	36,000	18,500
Fayette	376	14,000	18,500	12,000
Howard	155	7,400	5,500	7,500
Winneshiek	304	18,500	23,000	20,000
NE District	3,662	150,000	187,000	138,000
Audubon	240	21,000	500	15,000
Calhoun	193	14,000	100	5,400
Carroll	490	57,000	600	13,400
Crawford	279	31,500	1,500	24,000
Greene	162	11,000	100	8,400
Guthrie	152	16,000	300	17,700
Harrison	125	19,000	500	19,500
Ida	159	25,000	600	12,400
Monona	100	17,500	300	10,200
Sac	364	32,500	1,000	10,000
Shelby	283	25,500	700	13,800
Woodbury	255	40,000	300	18,200
WC District	2,822	310,000	6,500	168,000
Boone	173	11,500	700	6,300
Dallas	114	9,300	400	8,600
Grundy	274	17,500	1,100	6,400
Hamilton	282	6,500	300	17,00
Hardin	387	13,500	500	11,500
Jasper	353	25,000	1,500	25,000
Marshall	195	13,900	700	12,300
Polk	68	5,300	500	6,000
Poweshiek	197	16,500	1,000	22,500
Story	206	12,000	800	4,200
Tama	254	18,000	1,800	19,200
Webster	175	6,000	200	4,300
C District	2,678	155,000	9,500	128,000

Hogs & Grain Fed Cattle Marketed, Milk & Beef Cows on Farms, by County (cont'd)

County and District	Hogs Marketed (000 Head) 1988	Grain Fed Cattle Marketed 1988	Milk Cows (Jan. 1, 1989)	Beef Cows
Benton	274	32,000	3,000	16,000
Cedar	356	16,500	1,800	13,200
Clinton	247	31,000	3,000	12,500
Iowa	245	31,500	1,400	24,100
Jackson	223	35,500	11,500	29,500
Johnson	350	14,500	4,300	14,700
Jones	367	28,500	6,500	18,000
Linn	213	16,500	4,800	13,200
Muscatine	155	9,000	1,800	9,200
Scott	200	15,000	2,900	7,600
EC District	2,630	220,000	41,000	158,000
Adair	150	17,500	1,100	31,900
Adams	89	11,500	400	21,100
Cass	164	20,000	700	18,800
Fremont	84	14,000	400	8,600
Mills	75	11,000	100	8,900
Montgomery	95	10,500	300	12,200
Page	139	15,000	400	17,100
Pottawattamie	237	36,000	600	23,400
Taylor	102	9,500	200	18,800
SW District	1,135	145,000	4,200	160,800
Appanoose	31	4,400	800	21,700
Clarke	74	3,300	300	20,700
Decatur	81	5,000	800	26,200
Lucas	47	3,400	600	21,400
Madison	124	3,900	100	20,900
Marion	225	3,700	1,500	11,500
Monroe	68	4,200	900	17,600
Ringgold	91	5,000	700	27,300
Union	74	4,000	200	23,300
Warren	155	4,100	1,700	21,300
Wayne	70	4,000	700	23,300
SC District	1,040	45,000	8,300	235,200
Davis	81	6,900	2,000	18,500
Des Moines	84	4,200	1,100	7,400
Henry	170	4,000	500	7,500
Jefferson	133	4,800	900	9,100
Keokuk	321	7,800	400	20,100
Lee	170	8,700	1,900	10,600
Louisa	118	3,000	200	7,300
Mahaska	381	13,700	1,600	14,400
Van Buren	119	5,100	600	17,900
Wapello	77	5,500	700	11,300
Washington	545	6,300	1,300	10,700
SE District	2,199	70,000	11,200	134,800
State	22,505	1,680,000	310,000	1,265,000
Source: Iowa Agricultural Statistics, 1989, Iowa Department of Agriculture & Land Stewardship				

COMMUNICATIONS



Communications Media

	1970	1980	1983	1984	1985	1986	1987	1988	1989
Telephones in use:*									
Business	381,747	143,503	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Residential	1,242,500	1,032,570	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	1,624,247	1,176,073	1,267,419	1,252,861	1,240,016	N/A	1,267,499	1,287,610	N/A
Newspapers:									
Daily - number	43	42	43	42	36	38	38	38	38
Net paid circulation**	1,000,000	934,390	1,064,419	989,291	1,001,829	576,081	561,249	552,657	549,584
Sunday - number	9	9	9	9	11	11	10	10	10
Net paid circulation**	845,006	745,039	745,343	790,666	769,656	404,907	397,517	384,952	386,979
Weeklies - number	346	339	336	329	329	325	323	317	304
Net paid circulation	698,389	780,663	755,934	671,378	628,892	739,578	685,372	709,349	683,000
Commercial broadcast:									
Stations - total	120	196	182	189	186	----- Not Available -----			192
Radio - total	108	174	168	173	170				173
AM	73	85	79	81	77				81
FM	35	89	89	92	93				92
Television	12	15	14	16	16				19
Non-commercial (educational) broadcast:									
Stations - total	Not Available	Not Available	13	14	20	----- Not Available -----			18
Radio - total			12	13	19				10
AM			4	4	6				1
FM			8	9	13				9
Television			1	1	1				1
Satellite T.V. stations		7	7	7	7				7

*Since private ownership of telephones began, only the number of primary access lines is available. A primary access line is a telephone line with an associated phone number.

**Des Moines Register not included in circulation figures for 1986-1989

Sources: Iowa Utilities Board, Iowa Newspaper Association, Inc., Iowa Broadcasters Association.

Telecommunications in Iowa

IOWA BUSINESS TELECOMMUNICATIONS FACTS:

Iowa Utilities Board has approved deregulation of long distance services:

- Iowa is the only state in the nation with completely deregulated long-distance rates.
- Deregulation allows the best customized systems and service at the lowest possible price.
- This action will attract long distance carriers and major business telecommunications users.
- Iowa's rates are among the lowest in the country for companies with 800-numbers.

Iowa's fiber optics networks rank number one in the nation:

- Teleconnect and Williams Pipeline together have installed a fiber optics network which covers the state, providing crystal-clear connections.
- Approximately 865 miles of new fiber optics cable will be routed throughout rural Iowa in 1990.
- The integration of equal access optics in Iowa is recognized as a national model.

Iowa's telecommunications system offers enhanced services, like Digital Switching:

- Digital Switching is a computerized switch which allows options such as call forwarding and call waiting.
- Several communities are already equipped with high capacity Digital Switching.
- 70% of Iowa's communities will have Digital Switching within the year.

Iowa lies in a strategic location:

- Iowa's Central time zone allows telemarketers to maximize their "reach."
- Iowa's location creates more telemarketing hours per day, with shifts that range from 8 a.m. on the East Coast to 9 p.m. on the West Coast.
- The crossroads of all the major transcontinental fiber optics networks lies in Iowa.

IOWA EDUCATIONAL TELECOMMUNICATIONS FACTS:

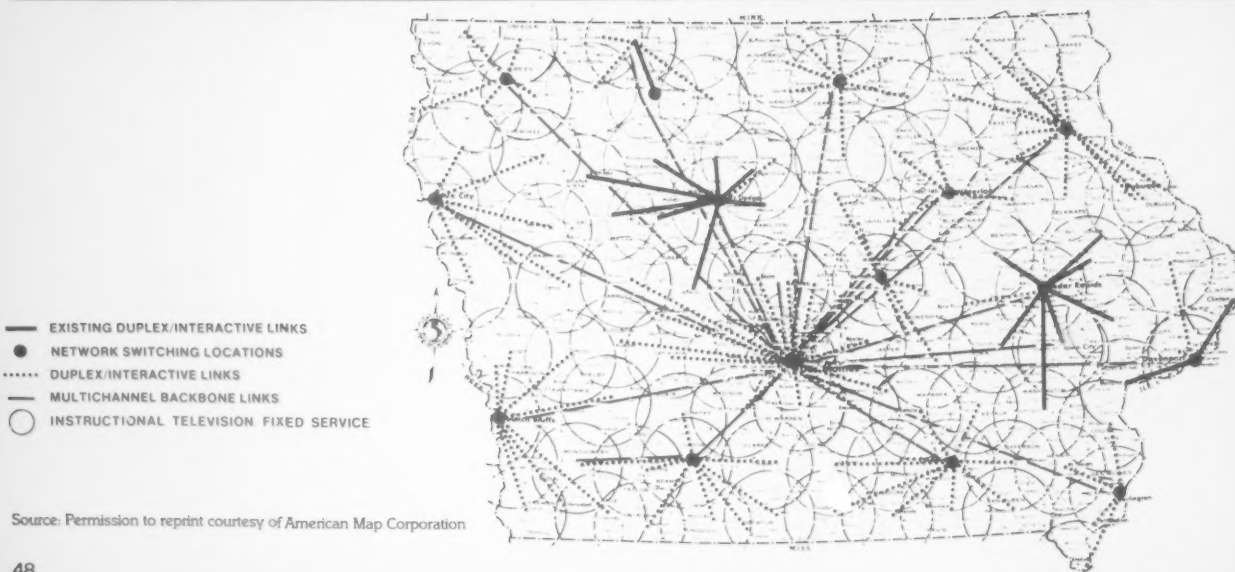
Iowa is a pioneer in the application of educational telecommunications:

- Iowa is about to become the first state in the nation to develop a statewide educational telecommunications network.
- The state legislature recently appropriated \$50 million over the next five years to build a statewide telecommunications network connecting every one of the state's 15 community colleges and 3 universities.
- Iowa networks have served as a model for educators throughout the United States and other nations.

The new statewide system will benefit schools and communities:

- The state already has several regional systems in operation that enable students at area community colleges to take courses from professors at state universities.
- The Iowa Public Television network will oversee operations and feed educational and vocational programs into local schools.
- The multimillion-dollar fiber optics communications system will also link the state's rural schools.

Iowa Educational Telecommunications Network



Source: Permission to reprint courtesy of American Map Corporation

CONSTRUCTION



Iowa Construction Industry: Establishments, Employees and Payroll, 1987

SIC Code	Industry Description	Total Number of Establishments	Number of Employees	Annual Payroll (\$000)
	CONSTRUCTION INDUSTRY TOTAL	5,617	33,405	746,639
15	General contractors and operative builders	1,526	9,400	199,648
151	General building contractors	926	7,282	163,780
153	Operative builders	64	299	6,276
16	Heavy construction contractors	532	(H)	*
161	Highway and street construction	131	1,885	76,358
162	Heavy construction, except highways	370	(G)	*
17	Special trade contractors	3,556	19,491	401,564
171	Plumbing, heating, and air conditioning	844	5,099	108,010
172	Painting, paper hanging, decorating	278	1,011	17,981
173	Electrical work	497	3,192	67,747
174	Masonry, stonework, plastering	149	1,972	41,455
1741	Masonry and other stonework	196	908	18,300
1742	Plastering, drywall and insulation	128	982	21,507
1743	Terrazzo, tile, marble mosaic work	13	66	1,419
175	Carpentering and flooring	429	1,300	19,800
1751	Carpentering	341	998	14,422
1752	Floor laying and floor work, N.E.C.	69	279	5,052
176	Roofing and sheet metal work	252	2,268	45,509
177	Concrete work	216	1,087	26,908
178	Water well drilling	41	153	2,622
179	Miscellaneous special trade contractors	521	3,081	65,039
1791	Structural steel erection	25	327	7,752
1793	Glass and glazing work	28	220	4,960
1794	Excavating and foundation work	206	876	21,038
1796	Installing building equipment, N.E.C.	41	486	10,331
1799	Special trade contractors, N.E.C.	186	1,079	19,783

(G) 1000 to 2499 employees

(H) 2500 to 4999 employees

*Denotes figures withheld to avoid disclosing data for individual companies.

N.E.C. = Not elsewhere classified

Source: County Business Patterns, 1987, U.S. Department of Commerce, Bureau of the Census.

New Privately-owned Housing Units Authorized in Permit Issuing Places

Iowa MSA	1985		1986		1987		1988	
	Number	Value (\$000)	Number	Value (\$000)	Number	Value (\$000)	Number	Value (\$000)
Cedar Rapids	272	\$13,596	628	\$23,572	781	\$35,595	696	\$37,763
Davenport (Quad Cities)	462	\$26,744	396	\$27,394	342	\$29,818	422	\$43,547
Des Moines	2,289	\$105,007	2,458	\$121,948	2,354	\$131,182	2,878	\$173,685
Dubuque	85	\$4,903	151	\$9,841	187	\$12,774	198	\$15,328
Iowa City	285	\$16,270	331	\$20,942	348	\$23,783	388	\$34,455
Omaha-Council Bluffs	2,917	\$136,372	4,469	\$161,799	2,906	\$139,192	3,075	\$162,291
Sioux City	115	\$4,408	184	\$6,721	122	\$5,381	145	\$6,011
Waterloo/Cedar Falls	39	\$2,362	99	\$4,591	68	\$3,800	161	\$10,785

Source: Construction Reports-Housing Units Authorized by Building Permits and Public Contracts, U.S. Department of Commerce, Bureau of the Census.

Number and Value of Housing Permits

Housing Permits for Single, Two-Family, and Multiple Dwellings, 1985-1988

City	1985		1986		1987		1988	
	Number	Value (000)	Number	Value (000)	Number	Value (000)	Number	Value (000)
Ames	N/A	N/A	N/A	N/A	167	\$7,146.1	74	\$6,082.0
Ankeny	45	\$4,371.9	69	\$6,176.0	92	\$8,055.7	110	\$11,647.8
Bettendorf	94	\$8,288.3	131	\$11,001.9	122	\$11,475.5	161	\$20,074.1
Boone	1	\$58.8	6	\$444.6	10	\$1,520.5	10	\$1,127.7
Burlington	10	\$561.8	8	\$691.6	12	\$948.8	14	\$1,245.2
Carroll	12	\$996.4	8	\$779.6	18	\$4,297.6	8	\$874.2
Cedar Falls	4	\$316.3	7	\$497.5	19	\$1,425.6	48	\$6,179.2
Cedar Rapids	120	\$6,541.8	211	\$12,909.1	296	\$20,696.8	313	\$19,230.2
Clinton	13	\$2,268.0	5	\$317.0	5	\$235.8	8	\$640.0
Council Bluffs	65	\$5,921.1	80	\$7,228.2	58	\$4,792.8	73	\$6,829.6
Davenport	83	\$8,679.7	71	\$7,707.3	92	\$7,388.8	119	\$10,877.0
Decorah	17	\$1,543.0	12	\$925.0	19	\$1,599.5	21	\$2,092.8
Des Moines	136	\$24,561.6	118	\$26,688.9	116	\$11,050.8	244	\$24,152.4
Dubuque	36	\$2,175.1	73	\$6,364.5	84	\$7,897.4	99	\$9,430.3
Fairfield	26	\$2,639.8	11	\$2,528.2	24	\$2,178.0	11	\$775.0
Fort Dodge	13	\$1,034.0	26	\$888.0	9	\$1,113.5	22	\$1,785.6
Fort Madison	35	\$1,069.9	4	\$161.9	1	\$45.0	2	\$390.0
Indianola	17	\$2,073.6	19	\$1,463.3	23	\$3,629.1	22	\$2,767.2
Iowa City	72	\$7,579.9	94	\$9,792.6	118	\$9,887.3	140	\$16,987.9
Keokuk	11	\$440.0	1	\$65.0	3	\$151.0	2	\$120.0
Marion	46	\$2,157.2	70	\$3,874.3	90	\$4,511.0	99	\$5,153.2
Marshalltown	6	\$359.5	5	\$318.5	7	\$660.0	14	\$6,091.3
Mason City	46	\$3,471.1	21	\$1,451.4	29	\$1,594.0	40	\$2,645.6
Mount Pleasant	21	\$1,013.0	25	\$1,507.3	21	\$1,445.5	31	\$2,332.5
Muscatine	13	\$625.0	15	\$816.7	30	\$971.2	19	\$1,569.4
Newton	14	\$851.1	8	\$745.9	18	\$1,838.5	45	\$3,285.7
Oskaloosa	6	\$345.5	16	\$654.6	14	\$876.0	7	\$470.3
Ottumwa	8	\$557.6	3	\$245.0	8	\$958.0	6	\$308.0
Sioux City	46	\$1,370.3	37	\$2,204.4	49	\$1,507.2	71	\$2,263.0
Spencer	3	\$212.0	0	\$0.0	1	\$85.0	6	\$347.5
Urbandale	229	\$14,089.0	251	\$12,125.3	312	\$16,030.4	280	\$15,146.7
Waterloo	6	\$581.7	16	\$980.6	6	\$474.3	22	\$2,135.6
West Des Moines	323	\$37,566.0	499	\$41,507.2	527	\$56,604.6	501	\$57,948.3
Total	1,645	\$150,895.1	1,966	\$166,497.4	2,400	\$193,091.2	2,642	\$243,005.1

Source: Iowa Department of Economic Development

FINANCE



Total Bank Deposits, Assets, and Loans, Iowa and Contiguous States

(Millions of Dollars)

IOWA			Missouri		
	12/87	12/88		12/87	12/88
Total Deposits	25,975	26,319	Total Deposits	44,918	46,308
Total Assets	30,250	30,853	Total Assets	53,252	54,815
Loans and FF* Sold	14,743	15,588	Loans and FF* Sold	33,283	5,423
Illinois			Nebraska		
	2/87	12/88		12/87	12/88
Total Deposits	141,940	145,906	Total Deposits	14,531	15,073
Total Assets	178,875	184,657	Total Assets	16,804	17,470
Loans and FF* Sold	108,880	114,225	Loans and FF* Sold	8,982	9,745
Kansas			South Dakota		
	12/87	12/88		12/87	12/88
Total Deposits	21,621	22,381	Total Deposits	8,350	8,904
Total Assets	24,702	25,529	Total Assets	20,531	22,357
Loans and FF* Sold	14,296	14,787	Loans and FF* Sold	16,836	18,458
Minnesota			Wisconsin		
	12/87	12/88		12/87	12/88
Total Deposits	42,378	41,248	Total Deposits	34,371	35,512
Total Assets	56,012	52,220	Total Assets	40,414	42,482
Loans and FF* Sold	32,581	33,661	Loans and FF* Sold	25,389	27,238
*FF = Federal Funds					
Source: Iowa Department of Commerce, Division of Banking					

Iowa Chartered Banks

(Amounts expressed in Thousands of Dollars)	12/31/84	12/31/85	12/31/86	12/31/87	12/31/88
Number of Banks	527	515	510	494	483
Loans and Direct Lease Financing	\$9,399,781	\$8,837,372	\$8,356,792	\$8,386,199	\$9,057,000
Total Assets	\$19,361,219	\$19,733,126	\$20,731,373	\$20,753,761	\$20,899,497
Total Deposits	\$16,784,968	\$17,177,612	\$18,074,702	\$17,960,269	\$17,922,000

Source: Iowa Department of Commerce, Division of Banking

Iowa Savings and Loan Associations

(Balance's Outstanding in Millions of Dollars)

	1970	1980	1985	1986	1987	1988
Number of S&L's	83	74	52	52	50	45
Total Assets	\$1,966	\$7,169	\$9,069	\$9,102	\$8,716	\$9,731
Total Mortgage Loans	\$1,691	\$5,927	\$6,008	\$5,554	\$5,235	\$5,438
Total Deposits	\$1,691	\$6,078	\$7,704	\$7,793	\$7,374	\$7,969

Sources: 1970 & 1980 - U.S. Department of Commerce, Statistical Abstract of the United States.
1985 to 1988 - Office of Thrift Supervision, Department of the Treasury.

Iowa Chartered Credit Unions

	1970	1980	1985	1986	1987	1988
Number (after January 1)	426	581	300	289	272	263
Total Assets (\$000)	205,599	660,560	1,168,397	1,364,189	1,480,024	1,589,290
Loans (\$000)	150,265	479,044	668,047	722,120	827,370	1,014,417
Shares and Deposits(\$000)	181,093	591,158	1,046,413	1,227,026	1,336,220	1,450,739

Source: Iowa Department of Commerce, Division of Credit Union

INSURANCE

In 1987, a total of 1,547 insurers were operating in Iowa. Of these, 255 were domiciled in Iowa. The domestic insurers actively engaged in business included:

- 33 Life insurance companies
- 59 Property and liability companies
- 133 County mutuals
- 1 Fraternal beneficiary society
- 2 Mortgage guaranty insurers
- 4 Reciprocal exchanges
- 6 State mutuals
- 5 Hospital and medical service organizations
- 9 Health maintenance organizations
- 3 Risk retention groups

Source: Iowa Insurance Fact Book, 1988-89, Drake University.



Number of Insurance Companies Operating in Iowa

Year	Life Companies			Property and Liability Companies			Miscellaneous		
	Domestic	Foreign	Total	Domestic	Foreign	Total	Domestic	Foreign	Total
1960	16	188	204	46	436	482	162	54	216
1965	29	268	297	46	444	490	159	61	220
1970	29	334	363	41	430	471	153	66	219
1975	28	384	412	42	475	517	153	68	221
1976	34	389	423	44	478	522	153	68	221
1977	33	398	431	46	477	523	154	69	223
1978	32	414	446	46	488	534	154	70	224
1979	35	435	470	48	503	551	154	68	222
1980	35	451	486	49	528	577	154	70	224
1981	37	473	510	50	545	595	154	71	225
1982	36	509	545		567	617	153	73	226
1983	38	517	555	58	595	653	153	74	227
1984	36	539	575	60	600	660	152	76	228
1985	34	542	576	59	596	655	158	76	234
1986	34	569	603	58	608	666	159	82	241
1987	33	585	618	59	629	688	160	81	241

Source: Insurance Division of Iowa reports.

Insurance Premiums Written in Iowa by Class of Insurer (in thousands).

Year	Life Companies	Property and Liability Companies	Hospital and Medical Service Organizations	Fraternal	All Others*	Total
1960	\$204,226	\$210,573	\$34,525	\$7,054	\$15,757	\$472,135
1965	321,644	251,676	50,013	9,133	20,614	653,080
1970	474,570	385,706	100,565	12,526	29,088	1,002,455
1975	665,650	652,630	207,245	18,672	47,413	1,591,610
1976	787,398	786,890	253,993	22,256	57,385	1,907,922
1977	834,292	947,603	305,794	24,546	64,573	2,176,808
1978	892,498	1,083,894	350,147	27,183	73,373	2,427,095
1979	966,509	1,192,011	384,345	30,127	83,906	2,656,898
1980	1,054,155	1,368,433	430,443	31,206	84,329	2,968,566
1981	1,143,336	1,271,699	484,554	41,293	91,404	3,032,286
1982	1,260,156	1,263,617	550,318	47,916	93,589	3,215,596
1983	1,416,573	1,257,715	587,805	51,186	92,084	3,405,363
1984	1,495,953	1,313,335	590,403	59,803	98,266	3,557,760
1985	1,576,080	1,544,014	596,567	65,229	177,914	3,959,804
1986	1,678,700	1,710,067	618,780	80,794	218,597	4,306,938
1987	1,856,202	1,811,637	647,915	100,129	166,959	4,582,842

* All others includes county mutuals, state mutuals, reciprocal exchanges, mortgage guaranty insurers, and health maintenance organizations.

Source: Insurance Division of Iowa reports.

Average Amount of Life Insurance in Force per Family

Year	Amount in Iowa	Amount in U.S.
1965	\$14,960	\$15,700
1970	21,780	22,100
1975	31,130	30,100
1976	34,430	32,200
1977	37,510	34,800
1978	40,150	37,800
1979	44,200	41,700
1980	48,620	43,800
1981	52,690	49,300
1982	56,540	53,600
1983	63,250	59,200
1984	67,430	64,500
1985	68,970	69,000
1986	75,680	76,000
1987	80,200	82,800

Source: *Life Insurance Fact Book*, New York Institute of Life Insurance, 1960-1988.

RETAIL-WHOLESALE TRADE



RETAIL TRADE: Establishments, Employees, and Payroll, 1987

SIC Code	Industry*	Total Number of Establishments	Number of Employees	Annual Payroll (\$1,000)
	RETAIL TRADE TOTAL	20,229	206,285	\$1,868,633
52	Building materials and garden supplies	1,276	7,954	104,499
521	Lumber and other building materials	526	4,251	67,563
525	Hardware Stores	431	2,283	19,686
526	Retail nurseries and garden stores	150	748	8,395
53	General merchandise stores	555	23,442	196,972
531	Department stores	167	19,365	162,698
54	Food stores	2,336	35,943	320,419
541	Grocery stores	1,771	32,161	298,388
542	Meat Markets and freezer provisioners	112	565	5,232
544	Candy, nut, and confectionery stores	69	490	1,521
545	Dairy products stores	67	408	3,073
546	Retail bakeries	222	1,110	9,219
55	Automotive dealers and service stations	3,278	24,920	367,440
551	New and used car dealers	573	10,718	216,415
552	Used car dealers	134	406	4,604
553	Auto and home supply stores	548	2,905	43,069
554	Gasoline service stations	1,840	9,947	90,209
555	Boat dealers	38	134	2,028
556	Recreation and utility trailer dealers	44	376	5,146
557	Motorcycle dealers	80	391	5,169
56	Apparel and accessory stores	1,901	11,399	83,387
561	Men's and boys' clothing and furnishings	243	1,347	12,520
562	Women's ready-to-wear stores	742	4,872	31,073
563	Women's accessory and specialty stores	66	290	1,798
564	Children's and infants' wear stores	74	305	1,458
565	Family clothing stores	201	1,949	15,369
566	Shoe stores	471	2,145	16,986
57	Furniture and home furnishings stores	1,293	6,763	85,237
571	Furniture and home furnishings stores	644	3,521	44,924
5712	Furniture stores	384	2,425	31,483
5713	Floor covering stores	136	663	9,866
5714	Drapery and upholstery stores	34	83	791
5719	Misc. home furnishings stores	87	324	2,657
572	Household appliance stores	221	947	10,928
573	Radio, television, and music stores	425	2,286	29,274
5732	Radio and television stores	307	1,642	22,876
5733	Music stores	118	644	6,398
58	Eating and drinking places	5,470	67,988	351,830
5812	Eating places	4,019	62,191	323,604
5813	Drinking places	1,415	5,751	27,807
591	Drug stores and proprietary stores	731	6,829	71,386
592	Liquor stores	152	524	3,936
5941	Sporting goods and bicycle shops	242	1,117	10,020
5942	Book stores	123	658	5,202
5943	Stationery stores	43	308	3,871
5944	Jewelry stores	291	1,554	16,182
5945	Hobby, toy, and game shops	131	640	4,196
5946	Camera and photographic supply stores	30	184	1,648
5947	Gift, novelty, and souvenir shops	367	1,573	10,957
5948	Luggage and leather goods stores	12	57	492
5949	Sewing, needlework, and piece goods	172	997	4,814
598	Fuel and Ice Dealers	258	1,069	15,439
5992	Florists	363	1,713	12,558
5994	News dealers and newsstands	21	90	492

*Not all industry classifications are shown.

Source: County Business Patterns, Iowa, 1987, U.S. Department of Commerce, Bureau of the Census

Retail Sales by Store Group for Iowa Counties and MSA's, 1988

County	Total Retail Sales (\$000)	Food (\$000)	Eating & Drinking Places (\$000)	General Mds. (\$000)	Furniture/ Appliance (\$000)	Auto- motive (\$000)	Drug (\$000)
Adair	47,747	14,699	5,766	1,536	698	6,810	1,313
Adams	16,188	5,311	873	334	317	2,949	417
Allamakee	87,661	24,107	5,516	5,616	1,593	29,057	760
Appanoose	71,455	21,373	6,405	8,089	1,737	12,651	1,239
Audubon	35,886	8,493	2,276	1,211	2,470	12,006	1,021
Benton	84,996	17,660	6,981	1,651	3,782	27,294	2,895
Black Hawk	797,112	138,749	78,052	122,459	42,007	194,378	27,575
Boone	116,549	28,361	11,051	7,195	7,197	30,068	3,158
Bremer	87,641	25,279	8,278	6,743	3,321	18,515	3,139
Buchanan	95,112	24,998	7,731	5,394	1,333	27,691	3,797
Buena Vista	157,756	33,759	13,626	15,251	6,474	40,448	3,528
Butler	42,089	10,772	2,638	2,358	1,939	12,054	909
Calhoun	50,369	13,430	3,138	1,537	3,234	14,005	1,588
Carroll	183,288	25,708	13,964	14,969	4,799	51,480	2,020
Cass	132,367	29,504	9,107	12,907	3,478	26,807	4,725
Cedar	80,996	19,542	5,204	2,518	2,265	23,409	1,202
Cerro Gordo	402,302	95,128	34,101	60,328	14,312	76,543	8,926
Cherokee	90,098	22,347	4,927	5,850	2,668	29,174	2,735
Chickasaw	50,788	12,097	4,543	2,871	1,771	14,843	1,886
Clarke	60,212	19,573	6,616	4,107	364	12,333	1,235
Clay	151,961	29,530	11,576	17,274	6,059	41,689	3,114
Clayton	82,518	18,760	5,253	690	2,038	25,811	2,553
Clinton	340,411	75,902	31,690	35,120	19,476	97,773	10,303
Crawford	70,806	18,884	7,856	4,009	1,712	11,027	1,932
Dallas	125,932	37,274	5,815	13,156	3,357	36,188	1,926
Davis	35,076	9,327	2,483	418	770	10,244	1,166
Decatur	42,221	16,975	3,264	1,230	1,097	5,885	2,294
Delaware	88,200	22,662	7,506	5,610	1,757	21,031	4,269
Des Moines	316,320	74,495	30,104	61,732	17,912	47,852	7,983
Dickinson	87,498	16,197	12,276	4,547	2,405	21,805	2,239
Dubuque	552,905	112,605	53,863	102,002	34,673	104,957	19,000
Emmet	64,503	16,503	4,262	4,908	1,544	15,274	1,700
Fayette	108,462	25,875	7,213	8,916	4,157	31,158	2,033
Floyd	98,304	25,962	8,369	12,492	2,344	20,527	2,428
Franklin	46,065	12,442	2,521	2,031	2,089	10,316	1,506
Frederick	50,269	21,306	3,066	182	1,221	6,422	2,130
Greene	67,500	14,113	5,639	2,300	844	25,348	1,671
Grundy	50,912	14,839	5,182	N/A	2,084	12,555	1,656
Guthrie	28,518	7,573	1,791	2,329	2,005	7,872	1,442
Hamilton	80,893	25,083	6,581	4,958	2,325	11,431	3,052
Hancock	33,025	10,249	3,248	544	2,374	6,543	1,726
Hardin	143,225	33,198	6,493	8,674	3,011	48,432	3,804
Harrison	93,330	14,531	6,558	1,078	3,618	46,436	4,126
Henry	109,858	25,120	7,619	11,638	3,802	32,394	3,347
Howard	47,612	16,105	3,085	1,480	1,394	8,777	2,381
Humboldt	54,175	16,807	5,444	2,682	1,581	14,872	2,009
Ida	50,560	13,607	2,914	3,490	725	12,383	2,247
Iowa	81,919	21,423	17,608	1,304	5,437	11,267	1,692
Jackson	81,182	22,888	5,952	6,631	3,080	17,652	2,724
Jasper	194,275	50,517	15,276	13,529	6,652	41,783	7,399
Jefferson	92,916	22,675	7,517	7,992	1,701	25,878	2,416
Johnson	467,651	100,608	56,862	67,917	27,784	81,399	12,588
Jones	77,115	18,828	5,595	6,673	1,888	22,750	1,873
Keokuk	36,658	4,364	2,471	204	613	14,437	1,091
Kossuth	102,818	20,845	8,781	9,292	4,254	32,927	2,074
Lee	208,038	52,047	17,339	28,257	13,019	45,213	7,564
Linn	1,116,098	223,132	98,354	220,444	53,460	217,354	35,425
Louisia	39,804	13,367	4,388	496	1,056	12,001	1,503
Lucas	79,341	22,019	5,018	3,348	2,413	11,766	1,575
Lyon	35,877	9,932	2,185	644	4,084	6,703	298
Madison	72,411	18,039	7,022	1,864	1,341	19,262	2,015
Mahaska	111,741	32,267	10,818	10,882	7,474	18,334	3,354
Marion	123,623	28,835	13,679	10,058	6,201	33,044	4,029
Marshall	224,397	56,027	19,805	31,425	7,605	50,305	9,338
Mills	48,124	12,398	4,049	1,629	711	16,959	1,934
Mitchell	52,130	7,559	3,327	932	1,956	12,353	1,881
Monona	65,694	12,176	4,674	1,538	1,707	27,102	3,918
Monroe	26,284	8,437	1,241	841	151	7,188	499
Montgomery	89,668	20,062	6,613	14,284	2,643	21,723	4,290
Muscatine	227,324	61,109	20,039	21,942	9,374	38,670	8,738
Osceola	100,948	19,327	6,866	5,044	2,632	30,244	4,036
O'Brien	24,718	6,830	1,829	672	426	4,090	257
Page	113,371	11,882	6,395	18,030	4,601	19,792	4,453
Palo Alto	56,204	10,347	3,151	1,076	1,630	19,592	1,434
Plymouth	128,662	34,378	9,853	10,591	2,205	34,393	2,249

Retail Sales by Store Group for Iowa Counties and MSA's, 1988 (continued)

County	Total Retail Sales (\$000)	Food (\$000)	Eating & Drinking Places (\$000)	General Mds. (\$000)	Furniture/ Furnish/ Appliance (\$000)	Auto- motive (\$000)	Drug (\$000)
Pocahontas	35,142	8,695	3,235	652	693	9,026	336
Polk	2,608,955	556,313	275,543	391,638	168,048	548,423	66,497
Pottawattamie	688,403	111,178	59,375	67,470	10,217	192,136	30,016
Poweshiek	150,693	34,224	14,461	8,784	3,853	36,636	3,278
Ringgold	25,770	4,497	3,029	1,046	515	11,790	511
Sac	55,808	9,938	4,165	733	439	12,865	1,599
Scott	1,052,698	201,294	117,369	169,340	62,679	216,105	30,931
Shelby	85,514	22,042	8,148	10,453	1,041	23,674	2,335
Sioux	123,551	24,410	7,651	3,939	4,813	46,411	3,905
Story	454,180	107,322	47,019	66,583	20,968	105,961	10,433
Tama	70,518	21,282	6,502	5,230	3,007	12,289	807
Taylor	29,629	11,426	2,918	617	613	3,318	315
Union	84,247	24,582	6,305	6,736	1,548	19,157	1,493
Van Buren	20,900	5,767	2,129	501	619	2	263
Wapello	217,210	63,029	15,194	28,170	7,976	4	6,498
Warren	99,416	26,890	6,122	5,155	1,364	39,676	2,196
Washington	95,202	22,488	7,872	9,275	3,728	22,619	2,260
Wayne	33,902	10,106	3,544	679	661	6,029	996
Webster	274,631	48,755	25,747	52,795	12,599	64,252	4,844
Winnebago	68,794	13,996	6,123	4,474	964	24,848	2,418
Winneshiek	126,328	27,461	13,380	11,507	8,535	20,191	3,129
Woodbury	704,560	149,940	60,729	119,510	33,537	151,182	19,203
Worth	28,985	8,200	2,322	60	857	5,507	939
Wright	81,761	27,332	4,917	2,564	3,368	19,576	1,943
IOWA MSA'S:							
Cedar Rapids	1,116,098	223,132	98,354	220,444	53,460	217,354	35,425
Davenport-Rock Island-Moline	2,490,821	472,911	255,641	357,484	111,688	591,670	94,836
Des Moines	2,834,303	620,477	287,480	409,949	172,769	624,287	70,619
Dubuque	552,905	112,605	53,863	102,002	34,673	104,957	19,000
Iowa City	467,651	100,608	56,862	67,917	27,784	81,399	12,588
Sioux City	776,080	162,578	71,244	120,043	38,774	166,255	20,656
Waterloo-Cedar Falls	884,753	164,028	86,330	129,202	45,328	212,893	30,714
Total Metro Counties	8,301,371	1,683,262	820,362	1,285,834	440,447	1,800,313	248,496
Total State	17,007,999	3,780,299	1,552,970	2,061,864	760,873	3,928,047	495,897

Source: "1989 Survey of Buying Power," Sales and Marketing Management Magazine

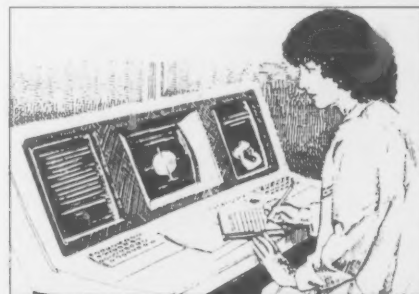
WHOLESALE TRADE: Establishments, Employees, and Payroll, 1987

SIC Code	Industry*	Total Number of Establishments	Number of Employees	Annual Payroll (\$1,000)
WHOLESALE TRADE TOTAL		6,970	69,058	51,390,994
50	Wholesale trade-durable goods	3,275	29,742	630,151
501	Motor vehicles and automotive equipment	607	4,980	92,261
5012	Automobiles and other automotive equipment	92	1,511	33,280
5013	Automotive parts and supplies	462	3,033	51,074
5014	Tires and tubes	53	436	7,907
502	Furniture and home furnishings	62	640	13,142
5021	Furniture	31	387	8,353
5023	Home furnishings	29	253	4,780
503	Lumber and construction materials	166	1,859	43,371
5031	Lumber, plywood, and millwork	76	1,052	24,186
5039	Construction materials, n.e.c.	86	807	18,934
504	Sporting goods, toys, and hobby goods	81	671	11,624
5041	Sporting and recreational goods	49	495	8,542
5042	Toys and hobby goods and supplies	24	120	1,712
5043	Photographic equipment and supplies	7	56	1,344
505	Metals and minerals, except petroleum	54	579	14,652
5051	Metals service centers and offices	54	579	14,652
506	Electrical goods	286	3,490	78,662
5063	Electrical apparatus and equipment	171	2,369	56,043
5064	Electrical appliances, television and radio	29	489	10,028
5065	Electronic parts and equipment	86	632	12,591
507	Hardware, plumbing and heating equipment	250	1,939	42,339
5072	Hardware	58	502	11,225
5074	Plumbing and hydronic heating supplies	116	837	17,728
5075	Warm air heating and air conditioning	47	316	6,083
5078	Refrigeration equipment and supplies	28	273	7,199
508	Machinery, equipment, and supplies	1,561	14,276	311,518
5081	Commercial machines and equipment	308	3,467	92,278
5082	Construction and mining machinery	67	892	21,627
5083	Farm machinery and equipment	640	5,011	92,124
5084	Industrial machinery and equipment	184	1,549	35,688
5085	Industrial supplies	144	1,257	27,270
5086	Professional equipment and supplies	128	1,275	27,328
5087	Service establishment equipment	75	726	13,054
5088	Transportation equipment and supplies	12	99	2,040
509	Miscellaneous durable goods	203	1,289	22,206
5093	Scrap and waste materials	117	850	15,996
5094	Jewelry, watches, and precious stones	21	43	574
5099	Durable goods, n.e.c.	61	396	5,583
51	Wholesale trade-nondurable goods	3,616	36,371	691,376
511	Paper and paper products	148	1,748	38,312
5111	Printing and writing paper	27	336	9,171
5112	Stationery supplies	89	835	16,946
5113	Industrial and personal service paper	32	577	12,195
512	Drugs, proprietaries, and sundries	30	320	9,173
513	Apparel, piece goods, and notions	37	441	4,954
5136	Men's clothing and furnishings	7	83	674
5137	Women's and children's clothing	8	100	960
5139	Footwear	8	28	212
514	Groceries and related products	348	8,045	171,545
5141	Groceries, general line	28	2,095	51,475
5147	Meats and meat products	65	2,323	48,849
5148	Fresh fruits and vegetables	31	328	7,182
5149	Groceries and related products, n.e.c.	113	1,851	38,482
515	Farm-product raw material	1,102	9,648	167,188
5153	Grain	842	7,388	147,637
5154	Livestock	232	1,977	15,309
516	Chemicals and allied products	110	935	20,918
517	Petroleum and petroleum products	433	2,895	44,083
518	Beer, wine, and distilled beverages	96	1,413	29,890
519	Miscellaneous nondurable goods	1,310	10,915	205,261
5191	Farm supplies	1,064	7,930	152,303
5194	Tobacco and tobacco products	26	576	11,876
5198	Paints, varnishes, and supplies	21	106	1,580

*Not all industry classifications are shown.

Source: County Business Patterns, Iowa, 1987, U.S. Department of Commerce, Bureau of the Census.

SERVICE INDUSTRY



SERVICE INDUSTRY: Establishments, Employees, and Payroll, 1987

SIC Code	Industry*	Total Number of Establishments	Number of Employees	Annual Payroll (\$1,000)
SERVICES TOTAL		22,641	237,235	\$3,106,019
70	Hotels and other lodging places	638	10,305	71,026
72	Personal services	2,739	12,654	114,223
721	Laundry, cleaning, and garment services	450	3,438	33,286
722	Photographic studios, portrait	154	782	5,334
723	Beauty shops	1,288	4,887	39,068
724	Barber shops	67	170	1,636
725	Shoe repair and hat cleaning shops	32	53	575
726	Funeral service and crematories	372	1,464	22,735
73	Business services	2,378	33,642	479,822
731	Advertising	134	1,713	28,619
733	Mailing, reproduction, stenographic	169	2,506	36,108
734	Services to buildings	453	4,643	45,076
736	Personnel supply service	149	5,675	47,721
7361	Employment agencies	76	1,125	13,596
7362	Temporary help supply services	73	4,550	34,125
737	Computer and data processing services	197	4,824	111,187
7372	Computer programming and software	94	836	21,645
7374	Data processing services	62	3,829	85,568
739	Miscellaneous business services	1,177	13,465	198,987
7391	Research and development laboratories	17	116	2,768
7392	Management and public relations	348	4,783	87,019
7393	Detective and protective services	78	1,943	19,411
7394	Equipment renting and leasing	334	1,895	25,820
7395	Photofinishing laboratories	55	549	7,305
75	Auto repair, services, and garages	1,724	7,221	108,885
751	Automotive rentals, without drivers	114	1,163	22,630
752	Automobile parking	30	188	1,880
753	Automotive repair shops	1,390	4,965	75,513
7531	Top and body repair shops	429	1,442	20,574
7534	Tire retreading and repair shops	15	120	1,382
7535	Paint shops	15	54	786
7538	General automotive repair shops	664	2,241	34,708
7539	Automotive repair shops, n.e.c.	263	1,107	17,526
754	Automotive services, except repair	187	901	8,829
7542	Car washes	115	544	4,509
76	Miscellaneous repair services	768	2,814	41,136
762	Electrical repair shops	178	663	8,962
7622	Radio and television repair	68	218	2,471
7623	Refrigeration service and repair	28	98	1,546
7629	Electrical shops n.e.c.	81	347	4,942
763	Watch, clock, and jewelry repair	465	34	115
764	Reupholstery and furniture repair	68	211	2,137
78	Motion pictures	177	1,525	9,951
783	Motion picture theaters	148	1,316	6,371
79	Amusement and recreation services	987	8,288	63,664
793	Bowling and billiard establishments	211	1,982	10,481
7932	Billiard and pool establishments	11	77	458
7933	Bowling alleys	199	1,896	9,998
799	Miscellaneous amusement, recreational services	622	4,591	42,121
7992	Public golf courses	52	234	2,246
7993	Coin-operated amusement devices	44	204	2,740
7996	Amusement parks	10	37	2,651
7997	Membership sports and recreation clubs	297	2,645	23,469

SERVICE INDUSTRY: Establishments, Employees, and Payroll, 1987 (cont'd)

SIC Code	Industry*	Total Number of Establishments	Number of Employees	Annual Payroll (\$1,000)
80	Health services	4,479	83,955	1,379,549
801	Offices of physicians	1,431	10,553	405,315
802	Offices of dentists	1,168	5,080	80,633
803	Offices of osteopathic physicians	175	738	17,157
804	Offices of health practitioners	784	2,375	34,773
8041	Offices of chiropractors	351	869	10,352
8042	Offices of optometrists	277	989	14,935
8049	Offices of health practitioners n.e.c.	155	517	9,474
805	Nursing and personal care facilities	443	28,680	227,840
806	Hospitals	70	31,497	533,783
807	Medical and dental laboratories	115	1,254	23,651
8071	Medical laboratories	45	601	12,289
8072	Dental laboratories	70	653	11,362
808	Outpatient care facilities	157	1,615	31,302
809	Health and allied services, n.e.c.	133	2,142	24,907
81	Legal Services	1,455	6,325	124,899
82	Educational services	351	19,630	208,432
821	Elementary and secondary schools	196	4,581	43,908
822	Colleges and universities	55	14,007	151,472
823	Libraries and information centers	14	20	75
824	Correspondence and vocational schools	20	588	7,557
829	Schools and educational services, n.e.c.	53	405	5,212
83	Social services	1,642	20,097	159,013
86	Membership organizations	3,997	21,059	156,184
861	Business associations	223	1,328	23,050
862	Professional associations	67	227	3,666
863	Labor organizations	299	1,843	14,100
864	Civic and social associations	599	4,281	28,008
865	Political organizations	15	77	1,002
866	Religious organizations	2,560	11,895	70,671
89	Miscellaneous services	1,202	8,039	156,076
891	Engineering and architectural services	321	3,137	74,537
893	Accounting, auditing, and bookkeeping	685	4,116	71,860

*Not all industry classifications are shown.

Source: *County Business Patterns, Iowa 1987*, U.S. Department of Commerce, Bureau of the Census

WORKFORCE

A mood of optimism was perceptible in most areas of Iowa as the '80s drew to a close. The state's labor force, employment, and non-farm employment levels climbed to record highs in 1989, and unemployment dropped to the lowest level reported for the decade. There was also evidence that some valuable lessons had been learned from the events of the past ten years. Both educators and program planners have recognized the need to adapt workers to ongoing change in the job market. Additionally, many communities across Iowa have formulated plans for future economic growth and for diversification of their respective industrial bases.



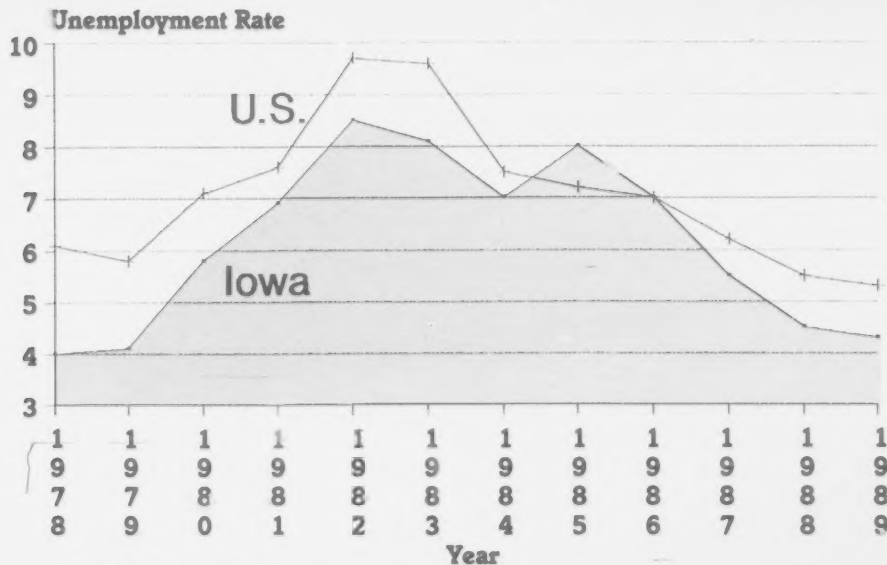
Employment and Unemployment, Iowa* and U.S., 1978-1989

Year	Iowa				U.S. Unemployment Rate
	Total Labor Force	Total Employment	Number Unemployed	Unemployment Rate	
1978	1,418,000	1,361,000	57,000	4.0%	6.1%
1979	1,425,000	1,366,000	59,000	4.1%	5.8%
1980	1,432,000	1,350,000	82,000	5.8%	7.1%
1981	1,426,000	1,328,000	99,000	6.9%	7.6%
1982	1,417,000	1,296,000	121,000	8.5%	9.7%
1983	1,420,000	1,305,000	115,000	8.1%	9.6%
1984	1,411,000	1,312,000	99,000	7.0%	7.5%
1985	1,413,000	1,300,000	112,000	8.0%	7.2%
1986	1,438,000	1,338,000	101,000	7.0%	7.0%
1987	1,448,000	1,369,000	80,000	5.5%	6.2%
1988	1,500,000	1,433,000	67,000	4.5%	5.5%
1989	1,513,000	1,448,000	65,000	4.3%	5.3%

* Benchmark: March 1989

Source: U.S. Department of Labor, Bureau of Labor Statistics

Iowa vs. U.S. Unemployment Rates, 1978-1989



Source: U.S. Department of Labor

New Jobs Created in Iowa by Industry, 1985-1989

Industry	1985	1986	1987	1988	1989
Agriculture	662	427	730	1,111	1,820
Mining	32	36	133	57	116
Construction	4,192	3,466	5,104	7,636	7,687
Manufacturing	3,408	5,455	5,772	6,086	6,888
Transportation and Utilities	2,560	1,943	2,522	2,777	2,661
Trade	15,694	16,088	16,644	25,127	28,654
Finance	1,093	1,211	1,180	1,280	1,782
Services	8,380	9,392	11,640	14,937	14,270
Public Administration	307	439	159	723	413
Total	36,328	38,457	43,864	59,734	64,291

Source: Iowa Department of Employment Services.

Midwest Employment Climate, 1986-1988

State	Civilian Labor Force (000s)		Percent of Labor Force Unemployed		Annual Average Non-Agric. Employment (000s)			Annual Average Manuf. Employment			Average Hourly Manuf. Earnings(\$)			Average Weekly Manuf. Hours		
	1987	1988	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988
IOWA	1,449.0	1,500.0	5.5	4.5	1,073.8	1,109.1	1,155.9	201.7	213.5	227.2	10.35	10.62	10.64	40.6	41.3	41.7
Illinois	5,751.0	5,766.0	7.4	6.8	4,790.7	4,928.3	5,077.8	925.8	940.2	971.5	10.67	10.85	11.03	40.9	41.6	41.7
Indiana	2,752.0	2,817.0	6.4	5.3	2,221.8	2,304.9	2,398.4	604.0	616.6	633.0	10.81	11.06	11.38	41.5	41.9	41.8
Kansas	1,267.0	1,277.0	4.9	4.8	984.9	1,005.1	1,033.2	175.7	176.2	181.4	9.76	9.97	10.19	40.3	40.8	40.7
Michigan	4,529.0	4,580.0	8.2	7.6	3,657.3	3,735.8	3,797.7	1,000.4	972.5	947.2	12.80	12.97	13.43	42.6	42.2	43.3
Minnesota	2,261.0	2,327.0	5.4	4.0	1,892.5	1,958.4	2,022.1	369.1	376.4	393.6	10.20	10.37	10.56	40.6	40.9	40.7
Missouri	2,590.0	2,593.0	6.3	5.7	2,142.6	2,197.8	2,236.6	424.7	424.0	429.3	9.83	10.00	10.17	40.5	40.6	40.9
Nebraska	812.0	817.0	4.9	3.6	652.5	667.2	688.2	86.0	88.6	94.7	9.26	9.33	9.49	40.4	40.5	40.5
N. Dakota	331.0	329.0	5.2	4.8	249.9	252.8	255.9	15.3	15.8	16.2	8.19	8.43	8.37	38.2	38.7	38.8
Ohio	5,254.0	5,328.0	7.0	6.0	4,471.4	4,582.6	4,683.0	1,109.8	1,098.9	1,103.1	11.56	11.73	12.00	42.1	42.6	43.0
S. Dakota	355.0	358.0	4.2	3.9	251.9	256.9	264.0	28.2	29.3	30.8	7.75	7.92	8.03	42.1	41.7	41.4
Wisconsin	2,494.0	2,575.0	6.1	4.3	2,023.9	2,089.6	2,149.0	514.5	528.7	550.6	10.35	10.55	10.64	41.3	41.4	41.7
U.S. Total	119,865.0	121,669.0	6.2	5.5	99,525.0	102,200.0	105,594.0	4,816.0	4,967.0	5,125.0	9.73	9.91	10.18	40.7	41.0	41.1

Source: Employment and Earnings, United States Department of Labor, Bureau of Labor Statistics, May 1989 and March 1990.

Metropolitan Workforce, 1986-1988

State	Civilian Labor Force (000s)		Percent of Labor Force Unemployed		Annual Average Non-Agric. Employment (000s)			Annual Average Manuf. Employment			Average Hourly Manuf. Earnings(\$)			Average Weekly Manuf. Hours		
	1987	1988	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988
IOWA	1,449.0	1,500.0	5.5	4.5	1,073.8	1,109.1	1,155.9	201.7	213.5	227.2	10.35	10.62	10.64	40.6	41.3	41.7
Cedar Rapids	91.8	95.8	5.2	3.7	82.6	85.6	88.8	22.2	22.2	23.3	11.36	11.85	12.19	40.3	40.3	40.5
Des Moines	221.1	231.8	4.5	3.7	196.5	206.0	214.1	22.1	23.8	25.6	11.42	11.80	11.86	40.1	42.0	42.3
Dubuque	43.6	44.0	6.1	5.5	39.6	41.5	41.7	10.9	12.1	12.0	11.23	12.13	11.81	39.7	42.4	41.7
Sioux City	60.0	60.4	6.9	5.2	48.4	49.3	51.5	9.8	8.6	9.9	8.50	8.42	8.42	40.4	39.4	35.5
Waterloo																
Cedar Falls	68.2	70.4	8.2	5.5	57.7	60.6	63.4	11.3	13.2	14.8	N/A	N/A	N/A	N/A	N/A	N/A

Source: Employment and Earnings, United States Department of Labor, Bureau of Labor Statistics, May 1989 and March 1990.

Iowa Employment by Industry, Annual Averages (numbers in 000's)

INDUSTRY	1965	1970	1975	1980	1985	1986	1987	1988	1989
Total Nonagriculture	754.6	882.8	993.1	1,109.9	1,075.2	1,073.8	1,105.8	1,155.9	1,191.2
Manufacturing	192.4	215.5	229.6	244.8	204.9	201.7	211.7	227.2	234.6
Durable Goods	107.8	122.8	140.2	150.0	117.7	114.5	122.9	132.2	134.6
Primary Metals	8.0	8.5	7.6	8.5	7.4	6.7	7.1	7.5	7.7
Fabricated Metals	11.0	13.1	16.1	19.3	15.5	15.5	15.4	17.6	18.0
Machinery	41.3	44.6	58.9	64.9	42.6	37.7	40.9	44.3	45.0
Farm Machinery	26.2	24.0	27.6	26.9	15.1	11.5	14.3	15.7	15.9
Const. Equipment	6.1	9.0	18.5	22.1	12.4	11.3	11.3	11.0	10.6
Electrical Equipment	22.7	23.7	24.5	25.4	20.2	21.7	24.3	24.8	25.3
Transp. Equipment	2.7	5.6	7.9	7.4	9.1	9.5	10.5	12.0	11.8
Nondurables	84.6	92.7	89.3	94.8	87.1	87.2	88.8	95.1	100.0
Food Products	51.5	54.4	47.7	48.5	41.0	40.8	41.5	43.8	45.7
Meat	25.6	28.2	23.3	24.9	19.8	19.9	20.2	22.3	23.9
Grain	9.4	10.9	11.1	11.3	9.1	8.7	8.4	9.0	9.4
Bakery	3.8	3.3	2.9	2.4	2.2	1.9	2.0	1.8	2.0
Apparel	3.9	4.0	3.8	4.1	4.5	4.3	4.4	4.9	5.1
Paper	2.9	3.6	3.7	4.2	4.1	4.9	5.3	5.5	5.8
Printing & Publishing	12.3	13.6	15.0	17.8	18.4	18.8	19.3	20.5	21.5
Newspapers	6.2	6.6	6.5	7.4	7.2	7.1	6.8	6.9	7.1
Chemicals	6.1	7.5	7.2	7.7	6.5	6.2	6.4	6.5	6.7
Rubber & Plastics	6.6	7.8	9.5	10.3	11.0	10.6	10.1	12.3	13.4
Nonmanufacturing	562.2	667.3	768.3	865.1	869.9	872.1	895.6	928.7	956.6
Mining	3.3	3.0	2.8	2.2	2.1	2.0	2.0	2.2	2.1
Construction	37.4	40.6	49.8	50.9	36.3	35.2	38.8	38.0	39.2
Transp. Comm & Pub Util	49.6	51.1	53.3	56.3	51.4	51.5	53.2	54.4	55.7
Wholesale & Retail Trade	185.6	209.2	250.8	280.7	277.6	274.4	280.3	294.5	306.2
Wholesale Trade	43.8	44.1	67.8	76.7	74.2	70.4	71.5	74.1	76.9
Retail Trade	141.8	165.2	183.0	203.9	204.7	204.0	210.8	220.5	229.3
Fin. Insur & Real Estate	35.8	41.0	48.3	58.4	63.0	63.3	64.5	66.1	68.2
Banking	11.0	13.2	15.8	18.1	18.6	18.2	18.0	18.1	18.5
Insurance	14.9	16.6	19.3	23.5	26.1	26.4	28.4	28.7	29.9
Services	111.9	146.7	171.5	209.3	231.4	238.5	243.2	261.4	271.2
Medical	34.1	44.3	60.2	77.1	79.8	82.0	84.3	88.2	91.3
Government	138.5	175.7	192.0	207.4	208.7	207.3	212.3	211.9	214.1

Source: Iowa Department of Employment Services

Average Hours and Earnings* by Industry, Iowa and U.S., 1986-1989

INDUSTRY	AWE		1989 AWH		AHE		AWE		1988 AWH		AHE	
	IOWA	U.S.	IOWA	U.S.	IOWA	U.S.	IOWA	U.S.	IOWA	U.S.	IOWA	U.S.
Total Private	290.49	N/A	33.7	N/A	8.62	N/A	283.22	323.29	34.0	34.8	8.33	9.29
Mining	428.27	N/A	46.5	N/A	9.21	N/A	417.67	536.79	46.1	42.3	9.06	12.69
Construction	480.76	N/A	40.4	N/A	11.90	N/A	469.61	491.56	40.8	37.9	11.51	12.97
Manufacturing	441.86	N/A	40.8	N/A	10.83	N/A	437.18	417.99	41.4	41.1	10.56	10.17
Transportation & Public Utilities	442.24	N/A	36.7	N/A	12.05	N/A	449.31	484.18	38.7	39.3	11.61	12.32
Trade	200.77	N/A	29.7	N/A	6.76	N/A	194.00	N/A	29.8	N/A	6.51	N/A
Finance, Insurance, Real Estate	309.64	N/A	36.3	N/A	8.53	N/A	292.86	326.69	36.2	35.9	8.09	9.10
Services	224.44	N/A	31.0	N/A	7.24	N/A	215.28	290.14	31.2	32.5	6.90	8.90

INDUSTRY	AWE		1987 AWH		AHE		AWE		1986 AWH		AHE	
	IOWA	U.S.	IOWA	U.S.	IOWA	U.S.	IOWA	U.S.	IOWA	U.S.	IOWA	U.S.
Total Private	276.62	312.50	33.9	34.8	8.16	8.98	268.71	304.85	33.8	34.8	7.95	8.76
Mining	371.51	530.85	42.9	42.4	8.66	12.52	351.54	525.81	41.9	42.2	8.39	12.46
Construction	453.20	479.68	40.0	37.8	11.33	12.69	421.89	466.75	39.1	37.4	10.79	12.48
Manufacturing	438.61	406.31	41.3	41.0	10.62	9.91	420.21	396.01	40.6	40.7	10.35	9.73
Transportation & Public Utilities	444.24	471.58	39.7	39.2	11.19	12.03	437.34	458.64	39.4	39.2	11.10	11.70
Trade	191.96	N/A	29.9	N/A	6.42	N/A	192.37	N/A	30.2	N/A	6.37	N/A
Finance, Insurance, Real Estate	271.44	316.90	36.0	36.3	7.54	8.73	263.15	304.30	35.9	36.4	7.33	8.36
Services	206.41	275.60	30.9	32.5	6.68	8.48	203.42	265.85	31.2	32.5	6.52	8.18

* Data relates to production workers in mining and manufacturing, construction workers in construction, and nonsupervisory in transportation and public utilities, wholesale and retail trade, finance, insurance, and real estate, and services.

NOTE: AWE = Average Weekly Earnings

AWH = Average Weekly Hours

AHE = Average Hourly Earnings

Source: Employment and Earnings, U.S. Dept. of Labor, Bureau of Labor Statistics, May 1989.

Iowa Unemployment Rates By County, 1985-1989

COUNTY	1985	1986	1987	1988	1989	COUNTY	1985	1986	1987	1988	1989
ADAIR	4.6	4.5	3.3	3.0	3.8	JEFFERSON	7.2	8.0	7.0	4.8	4.8
ADAMS	5.5	4.3	3.5	2.7	3.2	JOHNSON	3.1	2.6	2.0	1.8	1.5
ALLAMAKEE	10.4	7.7	6.5	5.2	5.9	JONES	8.5	6.7	5.7	4.0	4.2
APPANOOSE	11.3	9.4	7.3	6.0	6.2	KEOKUK	8.4	8.2	6.2	5.6	5.0
AUDUBON	8.6	7.5	5.3	3.5	3.5	KOSSUTH	8.6	7.8	6.4	5.0	4.7
BENTON	8.4	7.6	6.0	4.4	4.6	LEE	10.5	10.3	9.7	8.3	7.5
BLACK HAWK	14.4	12.8	8.4	5.7	5.3	LINN	7.2	6.2	5.2	3.7	3.6
BOONE	6.5	6.3	5.2	3.6	3.9	LOUISA	10.2	7.1	5.2	3.6	4.0
BREMER	9.4	9.7	7.0	4.1	3.7	LUCAS	7.6	6.0	5.7	4.3	4.7
BUCHANAN	11.3	9.3	7.0	4.9	5.2	LYON	4.6	4.6	3.2	2.8	2.4
BUENA VISTA	4.9	4.5	3.3	2.7	2.2	MADISON	7.3	7.9	5.3	5.2	5.2
BUTLER	9.7	9.6	7.2	5.3	4.8	MAHASKA	8.4	6.7	4.6	3.6	4.8
CALHOUN	7.7	6.1	4.8	3.5	2.8	MARION	3.9	4.3	3.5	3.2	3.4
CARROLL	8.0	7.1	5.7	4.3	4.7	MARSHALL	7.9	7.2	6.1	4.1	3.8
CASS	7.9	6.2	5.7	4.2	4.3	MILLS	7.3	7.0	4.9	3.8	4.1
CEDAR	6.7	5.9	4.4	3.8	3.2	MITCHELL	9.6	7.5	4.9	3.6	3.5
CERRO GORDO	8.1	7.1	5.7	5.0	4.8	MONONA	8.9	8.4	7.3	6.1	5.0
CHEROKEE	5.3	6.8	6.2	3.6	3.4	MONROE	12.8	12.9	8.4	7.0	6.3
CHICKASAW	12.2	10.3	7.5	5.5	5.4	MONTGOMERY	8.8	6.5	4.7	3.9	5.0
CLARKE	8.9	8.3	6.6	6.2	5.2	MUSCATINE	7.6	7.3	6.1	5.2	5.0
CLAY	7.8	6.2	4.8	3.1	2.8	O'BRIEN	4.9	5.0	4.1	2.8	2.2
CLAYTON	10.8	8.2	6.8	5.7	5.5	OSCEOLA	7.8	7.4	5.0	5.3	4.0
CLINTON	10.8	9.1	7.7	6.8	6.7	PAGE	8.3	6.7	5.3	4.1	4.9
CRAWFORD	6.8	6.0	5.0	6.9	7.5	PALO ALTO	8.5	6.1	3.9	3.8	3.5
DALLAS	5.9	6.4	4.4	3.4	5.9	PLYMOUTH	7.1	5.5	4.6	3.9	3.4
DAVIS	9.9	10.9	8.5	6.9	5.5	POCAHONTAS	6.0	4.9	3.7	2.9	2.4
DECATUR	7.0	7.7	6.1	5.1	3.3	POLK	6.6	5.8	4.5	3.8	3.6
DELAWARE	11.1	8.0	5.9	4.6	5.9	POTTAWATTAMIE	7.5	7.0	6.0	4.8	4.8
DES MOINES	10.7	8.6	6.6	6.1	5.8	POWESHIEK	6.4	5.1	3.8	3.1	3.5
DICKINSON	9.4	7.8	5.4	3.9	2.9	RINGGOLD	7.1	6.1	7.1	4.9	4.7
DUBUQUE	9.6	7.8	6.1	5.5	6.0	SAC	9.3	8.1	6.3	5.7	5.3
EMMET	14.8	12.3	8.5	5.9	5.8	SCOTT	8.2	7.4	6.6	6.8	6.0
FAYETTE	10.2	9.1	6.4	4.7	4.4	SHELBY	8.9	7.1	5.7	4.9	4.7
FLOYD	15.3	10.6	7.5	5.7	5.1	SIOUX	4.9	4.6	3.8	2.3	2.0
FRANKLIN	7.3	6.9	7.0	5.1	4.3	STORY	3.4	3.2	2.3	1.7	1.6
FREMONT	8.5	6.8	4.8	3.9	3.8	TAMA	7.8	7.5	6.3	4.6	4.2
GREENE	9.3	7.6	5.5	4.7	6.6	TAYLOR	8.1	7.1	6.3	3.7	3.9
GRUNDY	6.1	6.0	4.3	3.9	2.8	UNION	7.3	6.6	6.3	4.7	4.0
GUTHRIE	7.2	7.6	5.4	3.9	6.1	VAN BUREN	10.0	9.5	9.0	7.5	7.7
HAMILTON	6.3	6.0	4.0	2.9	3.5	WAPELLO	11.9	13.5	10.2	7.4	6.8
HANCOCK	9.6	7.8	5.0	3.4	4.6	WARREN	5.2	4.7	4.2	3.5	2.8
HARDIN	6.0	6.2	6.6	5.2	4.2	WASHINGTON	8.2	8.0	5.9	4.6	4.1
HARRISON	9.1	7.8	6.5	6.2	5.7	WAYNE	7.5	6.1	5.7	4.7	2.8
HENRY	7.4	5.9	5.0	3.8	3.9	WEBSTER	8.9	7.7	6.0	4.8	4.9
HOWARD	9.4	7.9	5.4	6.1	5.4	WINNEBAGO	7.1	5.3	3.8	2.4	3.8
HUMBOLDT	7.7	7.0	4.6	2.9	3.1	WINNESHIEK	7.6	7.2	6.0	5.2	4.4
IDA	5.0	4.0	3.2	2.7	2.7	WOODBURY	8.6	8.2	6.7	5.3	4.2
IOWA	6.4	5.6	3.4	2.7	2.4	WORTH	9.0	7.9	5.2	4.5	4.8
JACKSON	11.7	9.4	7.5	7.5	7.2	WRIGHT	7.8	6.0	4.7	3.8	3.5
JASPER	6.2	6.4	4.9	4.1	4.1	STATE OF IOWA	7.9	7.0	5.5	4.5	4.3

Source: Iowa Department of Employment Services.

LYON	2.4	OSCEOLA	4.0	DICKINSON	2.9	EMMET	5.8	KOSSUTH		WINNEBAGO	3.8	WORTH	4.8	MITCHELL	3.5	HOWARD	5.4	WINNEBIEK	4.4	ALLAMAKEE	5.9
SIOUX	2.0	O'BRIEN	2.2	CLAY	2.8	PALO ALTO	3.5	4.7		HANCOCK	4.6	CERRO GORDO	4.8	FLOYD	5.1	CHICKASAW	5.4	FAYETTE		CLAYTON	
PLYMOUTH	3.4	CHEROKEE	3.4	BUENA VISTA	2.2	POCAHONTAS	2.4	HUMBOLDT	3.1	WRIGHT	3.5	FRANKLIN	4.3	BUTLER	4.8	BREMER	3.7	4.4		5.5	
WOODBURY	4.2	IDA	2.7	SAC	5.3	CALHOUN	2.8	WEBSTER	4.9	HAMILTON	3.5	HARDIN	4.2	GRUNDY	2.8	BLACK HAWK	5.3	BUCHANAN	5.2	DELAWARE	5.9
MONONA	5.0	CRAWFORD	7.5	CARROLL	4.7	GREENE	6.6	BOONE	3.9	STORY	1.6	MARSHALL	3.8	TAMA	4.2	BENTON	4.6	LINN	3.6	JONES	4.2
HARRISON	5.7	SHELBY	4.7	AUDUBON	3.5	GUTHRIE	6.1	DALLAS	5.9	POLK	3.6	JASPER	4.1	POWESHIEK	3.5	IO'IA	2.4	JOHNSON	1.5	CLINTON	6.7
POTTAWATTAMIE	4.8	CASS	4.3	ADAIR	3.8	MADISON	5.2	WARREN	2.8	MARION	3.4	MAHASKA	4.8	KEOKUK	5.0	WASHINGTON	4.1	SCOTT	6.0	MUSCATINE	5.0
MILLS	4.1	MONTGOMERY	5.0	ADAMS	3.2	UNION	4.0	CLARKE	5.2	LUCAS	4.7	MONROE	6.3	WAPELLO	6.8	JEFFERSON	4.8	HENRY	3.9	LOUISA	4.0
FREMONT	3.8	PAGE	4.9	TAYLOR	3.9	RINGGOLD	4.7	DECATUR	3.3	WAYNE	2.8	APPANOOSE	6.2	DAVIS	5.5	VAN BUREN	7.7	LEE	7.5	DES MOINES	5.8

65

ECONOMY/INCOME

The Iowa economy has experienced a decade of growth, a decade of recession and the years of rebirth — all since 1970. With so much happening to income levels and employment and so many of us affected by these changes, it is no wonder that access to economic statistics is essential today. This section contains a thumbnail sketch of the Iowa economy. The reader is encouraged to contact the sources of the data directly in order to keep up on the most recent developments as we watch for the trends of the '90s.



Gross State Product by Industry - Midwest States (Millions of Dollars)

	IOWA					Illinois					Indiana				
	1982	1983	1984	1985	1986	1982	1983	1984	1985	1986	1982	1983	1984	1985	1986
Total gross state product	37,634	37,157	41,407	42,100	43,836	159,778	168,074	187,484	198,138	209,666	64,042	67,677	76,086	80,262	84,922
Farms	4,608	2,491	4,418	4,142	4,574	3,834	1,777	3,726	3,821	3,385	2,278	1,226	2,422	2,100	2,061
Agricultural services, forestry, and fisheries	312	348	340	244	253	489	557	585	515	558	186	209	216	192	205
Mining	62	82	99	99	90	1,798	1,805	1,879	1,826	1,599	556	581	637	631	556
Construction	1,273	1,225	1,349	1,366	1,396	6,250	6,419	7,502	8,007	8,630	2,945	3,003	3,244	3,573	3,891
Manufacturing	8,515	8,615	9,265	9,189	9,228	36,840	37,064	41,682	41,886	42,277	19,658	20,852	23,943	24,588	25,305
Durable goods	4,807	4,731	5,313	5,257	5,210	21,085	20,216	23,603	23,326	23,238	14,086	14,782	17,317	17,750	18,109
Nondurable goods	3,708	3,884	3,952	3,932	4,018	15,755	16,848	18,079	18,560	19,039	5,571	6,070	6,626	6,838	7,196
Transportation and public utilities	2,904	3,075	3,344	3,452	3,555	16,214	17,860	20,004	21,545	22,637	6,057	6,708	7,334	7,827	8,187
Wholesale trade	2,634	2,611	2,899	2,948	2,959	13,542	13,588	15,936	16,920	17,771	3,779	3,873	4,424	4,703	4,984
Retail trade	3,162	3,437	3,663	3,806	3,951	14,583	15,714	17,243	18,498	19,690	6,209	6,756	7,401	7,973	8,538
Finance, insurance, and real estate	6,481	7,012	7,190	7,364	7,835	25,522	28,837	30,408	32,811	36,728	8,954	9,871	10,492	11,181	12,296
Services	4,322	4,692	5,097	5,532	5,873	25,033	27,966	30,902	33,735	36,656	7,393	8,148	9,080	10,057	10,956
Federal civilian government	137	148	159	170	176	2,807	3,058	3,321	3,518	3,633	1,018	1,104	1,194	1,296	1,338
Federal military	64	78	85	90	101	1,126	1,150	1,242	1,383	1,477	315	361	368	409	450
State and local government	3,161	3,343	3,499	3,700	3,845	11,741	12,278	13,053	13,675	14,622	4,694	4,985	5,329	5,732	6,154

	Kansas					Michigan					Minnesota				
	1982	1983	1984	1985	1986	1982	1983	1984	1985	1986	1982	1983	1984	1985	1986
Total gross state product	33,287	34,966	38,495	40,364	42,472	108,627	118,373	132,369	143,719	153,240	55,919	59,731	67,250	71,183	75,626
Farms	2,463	1,794	2,073	2,361	2,823	1,796	1,487	1,741	1,816	1,637	3,401	2,358	3,368	3,047	3,324
Agricultural services, forestry, and fisheries	145	154	158	132	138	246	305	329	318	358	228	262	267	237	251
Mining	1,486	1,356	1,435	1,332	877	1,147	1,097	1,065	1,152	1,011	419	396	419	435	406
Construction	1,322	1,408	1,580	1,581	1,721	3,308	3,358	3,676	4,315	4,877	1,855	1,977	2,328	2,499	2,763
Manufacturing	5,934	6,602	7,427	7,579	7,922	31,690	35,706	42,265	46,020	47,540	11,968	12,855	14,686	15,288	15,813
Durable goods	3,119	3,584	4,286	4,210	4,336	24,293	27,779	33,550	36,733	37,722	6,970	7,466	8,704	9,028	9,228
Nondurable goods	2,816	3,018	3,142	3,369	3,586	7,197	7,927	8,715	9,286	9,818	4,998	5,390	5,982	6,260	6,585
Transportation and public utilities	3,828	4,309	4,858	4,940	5,090	8,603	9,580	10,288	10,858	11,347	5,019	5,585	6,369	6,682	6,851
Wholesale trade	2,369	2,431	2,737	2,881	2,947	6,541	6,853	8,279	8,803	9,484	4,628	4,726	5,532	5,786	6,022
Retail trade	2,889	3,099	3,366	3,644	3,823	10,266	11,119	12,167	13,152	14,188	5,315	5,805	6,461	6,945	7,282
Finance, insurance, and real estate	5,011	5,417	5,697	6,019	6,572	17,544	19,237	20,381	21,872	24,178	9,661	10,808	11,583	12,484	13,829
Services	4,063	4,393	4,906	5,285	5,635	15,343	16,912	18,689	21,199	23,189	7,849	8,680	9,743	10,804	11,667
Federal civilian government	389	419	465	502	523	1,360	1,448	1,562	1,687	1,678	672	730	770	836	860
Federal military	743	757	763	836	880	383	423	455	480	501	121	135	151	163	183
State and local government	2,642	2,825	3,028	3,275	3,522	10,391	10,867	11,473	12,047	13,252	4,783	5,055	5,573	5,978	6,373

Gross State Product by Industry - Midwest States (Millions of Dollars) (cont'd)

	Missouri					Nebraska					N. Dakota				
	1982	1983	1984	1985	1986	1982	1983	1984	1985	1986	1982	1983	1984	1985	1986
Total gross state product	61,226	66,640	74,493	79,220	83,534	21,244	21,565	24,268	25,639	26,521	10,293	10,000	10,808	10,725	10,733
Farms	2,102	1,418	1,884	2,061	1,943	2,887	1,940	2,975	3,244	3,190	1,442	974	1,398	1,302	1,544
Agricultural services, forestry, and fisheries	223	262	273	229	254	142	150	151	127	132	45	51	50	41	43
Mining	269	290	282	307	293	74	73	83	83	70	1,566	1,153	1,184	1,058	679
Construction	2,237	2,442	2,907	3,139	3,458	762	777	904	950	958	756	885	708	605	592
Manufacturing	13,845	15,413	17,810	18,418	18,912	2,915	3,075	3,501	3,586	3,648	473	522	576	612	622
Durable goods	7,933	9,028	10,888	11,225	11,420	1,391	1,500	1,833	1,813	1,831	211	227	253	267	260
Nondurable goods	5,912	6,385	6,922	7,193	7,492	1,524	1,575	1,668	1,774	1,817	262	295	323	344	362
Transportation and public utilities	6,769	7,675	8,533	8,791	9,155	2,247	2,511	2,775	2,935	2,989	860	956	1,156	1,139	1,130
Wholesale trade	4,964	4,826	5,505	5,795	5,873	1,670	1,676	1,829	1,862	1,872	765	756	834	839	841
Retail trade	6,042	6,756	7,528	8,211	8,707	1,910	2,014	2,126	2,272	2,363	759	800	847	884	893
Finance, insurance, and real estate	9,212	10,379	10,912	11,742	13,042	3,574	3,926	4,033	4,235	4,586	1,594	1,707	1,710	1,763	1,813
Services	9,204	10,245	11,403	12,507	13,484	2,559	2,780	3,061	3,332	3,568	1,049	1,141	1,230	1,292	1,351
Federal civilian government	1,705	1,866	2,017	2,178	2,181	46	50	54	58	60	-7	-7	-8	-8	-8
Federal military	533	613	636	660	695	422	445	476	506	533	287	317	337	351	348
State and local government	4,121	4,455	4,805	5,183	5,537	2,034	2,148	2,301	2,450	2,551	704	745	786	848	884

	Ohio					S. Dakota					Wisconsin				
	1982	1983	1984	1985	1986	1982	1983	1984	1985	1986	1982	1983	1984	1985	1986
Total gross state product	134,204	142,682	158,543	167,645	176,102	7,835	8,003	9,023	9,297	9,802	59,558	62,969	69,636	72,716	76,922
Farms	1,979	1,410	2,237	2,074	1,909	1,480	1,086	1,489	1,385	1,502	3,242	2,509	2,991	2,842	3,093
Agricultural services, forestry, and fisheries	344	409	436	405	439	59	70	71	54	55	232	299	319	273	291
Mining	1,864	1,741	1,828	1,705	1,441	68	93	96	100	117	63	81	86	87	84
Construction	4,351	4,419	5,046	5,289	5,563	283	298	334	351	375	1,690	1,780	2,037	2,126	2,345
Manufacturing	40,578	42,956	48,754	50,454	51,421	678	769	897	915	977	17,258	18,112	20,636	20,778	21,297
Durable goods	26,865	27,959	32,409	33,475	33,590	334	394	527	541	576	10,354	10,778	12,660	12,456	12,525
Nondurable goods	13,713	14,997	16,345	16,980	17,831	345	374	370	374	401	6,904	7,335	7,976	8,322	8,772
Transportation and public utilities	12,828	13,711	15,098	15,569	16,308	721	766	886	925	932	4,536	4,970	5,549	5,789	6,076
Wholesale trade	8,807	8,903	10,331	11,053	11,445	550	552	608	614	615	3,615	3,443	4,228	4,427	4,602
Retail trade	12,635	13,722	15,082	16,245	17,258	803	858	923	985	1,016	5,208	5,749	6,161	6,647	7,071
Finance, insurance, and real estate	19,823	21,716	22,771	24,472	27,058	1,290	1,456	1,512	1,607	1,718	9,987	10,954	11,527	12,321	13,513
Services	18,174	20,033	22,284	24,697	26,725	958	1,055	1,149	1,245	1,326	7,611	8,275	9,118	9,956	10,656
Federal civilian government	2,492	2,633	2,804	2,999	3,021	139	147	159	169	175	670	704	762	823	836
Federal military	545	602	644	704	725	179	190	195	200	209	160	202	246	278	298
State and local government	9,784	10,427	11,228	11,977	12,789	628	663	703	747	783	5,287	5,592	5,975	6,369	6,761

Source: Survey of Current Business, May 1988.

U.S. Department of Commerce, Bureau of Economic Analysis

U.S. Consumer Price Index and Inflation Rate

(for all urban consumers)

Year	Annual CPI* (1892-84=100)	Inflation Rate** (all items)
1960	29.6	1.5
1965	31.5	1.9
1970	38.8	5.5
1975	53.8	7.0
1980	82.4	12.5
1981	90.9	8.9
1982	96.5	3.8
1983	99.6	3.8
1984	103.9	3.9
1985	107.6	3.8
1986	109.6	1.1
1987	113.6	4.4
1988	118.3	4.4
1989	126.1	4.6

Sources: * Business Conditions Digest, March 1989, U.S. Dept. of Commerce, Bureau of Economic Analysis.

** Economic Indicators, October, 1989, U.S. Government Printing Office

Total Gross State Product by State (Millions of Dollars)

State	1975	1980	1984	1985	1986
United States	\$1,571,442	\$2,670,299	\$3,707,011	\$3,963,347	\$4,191,705
IOWA	\$21,665	\$34,442	\$41,407	\$42,100	\$43,836
Alabama	\$20,517	\$34,969	\$48,710	\$51,919	\$55,007
Alaska	\$6,387	\$12,860	\$20,802	\$21,237	\$19,575
Arizona	\$14,680	\$29,931	\$43,442	\$48,589	\$53,253
Arkansas	\$11,551	\$20,123	\$28,716	\$29,926	\$31,633
California	\$179,858	\$325,171	\$456,874	\$496,850	\$533,816
Colorado	\$19,628	\$37,620	\$53,373	\$56,713	\$59,177
Connecticut	\$23,965	\$39,752	\$59,363	\$64,696	\$70,639
Delaware	\$4,655	\$7,047	\$10,186	\$10,966	\$11,706
District of Columbia	\$12,437	\$19,029	\$25,100	\$27,185	\$28,791
Florida	\$52,989	\$97,830	\$149,554	\$164,340	\$177,729
Georgia	\$31,373	\$55,503	\$86,213	\$94,121	\$102,922
Hawaii	\$7,743	\$13,076	\$16,724	\$17,994	\$19,320
Idaho	\$5,600	\$9,670	\$12,299	\$13,027	\$13,170
Illinois	\$95,385	\$143,110	\$187,484	\$198,138	\$209,666
Indiana	\$37,718	\$59,050	\$76,086	\$80,262	\$84,922
Kansas	\$16,958	\$28,066	\$38,495	\$40,364	\$42,472
Kentucky	\$22,744	\$36,828	\$49,512	\$51,234	\$53,135
Louisiana	\$29,543	\$62,166	\$79,034	\$79,719	\$74,426
Maine	\$5,857	\$10,200	\$14,782	\$15,896	\$17,326
Maryland	\$28,578	\$44,912	\$64,465	\$70,580	\$76,504
Massachusetts	\$40,234	\$65,057	\$96,980	\$106,148	\$115,526
Michigan	\$65,781	\$103,841	\$132,369	\$143,719	\$153,240
Minnesota	\$28,599	\$48,846	\$67,250	\$71,183	\$75,626
Mississippi	\$11,870	\$21,470	\$29,637	\$30,819	\$31,830
Missouri	\$32,626	\$53,142	\$74,493	\$79,220	\$83,534
Montana	\$5,402	\$9,525	\$11,726	\$11,543	\$12,163
Nebraska	\$11,661	\$18,073	\$24,268	\$25,639	\$26,521
Nevada	\$5,322	\$11,970	\$16,350	\$17,918	\$19,426
New Hampshire	\$4,770	\$9,326	\$14,846	\$16,585	\$18,518
New Jersey	\$55,281	\$88,516	\$131,776	\$142,302	\$154,765
New Mexico	\$7,806	\$16,442	\$22,665	\$23,887	\$23,603
New York	\$145,134	\$214,143	\$311,727	\$336,071	\$362,736
North Carolina	\$34,939	\$58,876	\$87,748	\$93,821	\$100,961
North Dakota	\$5,044	\$8,146	\$10,808	\$10,725	\$10,733
Ohio	\$77,312	\$121,642	\$158,543	\$167,645	\$176,102
Oklahoma	\$18,704	\$37,739	\$50,077	\$50,842	\$49,814
Oregon	\$16,610	\$30,219	\$36,882	\$38,922	\$41,278
Pennsylvania	\$82,260	\$125,547	\$163,383	\$172,990	\$183,559
Rhode Island	\$5,728	\$9,184	\$12,921	\$13,961	\$15,205
South Carolina	\$15,514	\$27,275	\$39,581	\$41,832	\$44,727
South Dakota	\$4,487	\$6,922	\$9,023	\$9,297	\$9,802
Tennessee	\$25,990	\$45,018	\$63,207	\$67,560	\$72,328
Texas	\$100,471	\$205,047	\$289,239	\$307,615	\$303,510
Utah	\$7,798	\$15,121	\$21,739	\$23,172	\$24,008
Vermont	\$2,757	\$4,894	\$7,215	\$7,915	\$8,636
Virginia	\$34,345	\$58,634	\$87,599	\$95,369	\$104,155
Washington	\$27,794	\$51,354	\$67,347	\$71,756	\$77,683
West Virginia	\$11,781	\$19,197	\$22,885	\$23,541	\$24,096
Wisconsin	\$31,484	\$52,876	\$69,636	\$72,716	\$76,922
Wyoming	\$4,104	\$10,900	\$12,468	\$12,777	\$11,673

Source: Survey of Current Business, May 1988, U.S. Dept. of Commerce, Bureau of Economic Analysis.

Annual Indicators of the Iowa Economy, 1987-1992

	1987	1988	Year 1989	1990*	1991**	1992**
Nonfarm employment (thousands)	1098.477	1147.397	1198.628	1238.331	1268.573	1299.992
Personal income (billions of 1982 dollars)	\$33.551	\$34.673	\$34.930	\$35.641	\$36.010	\$36.109
Personal income (billions of current dollars)	\$39.543	\$42.139	\$44.192	\$46.913	\$49.542	\$52.116

- * Estimate
- ** Projections

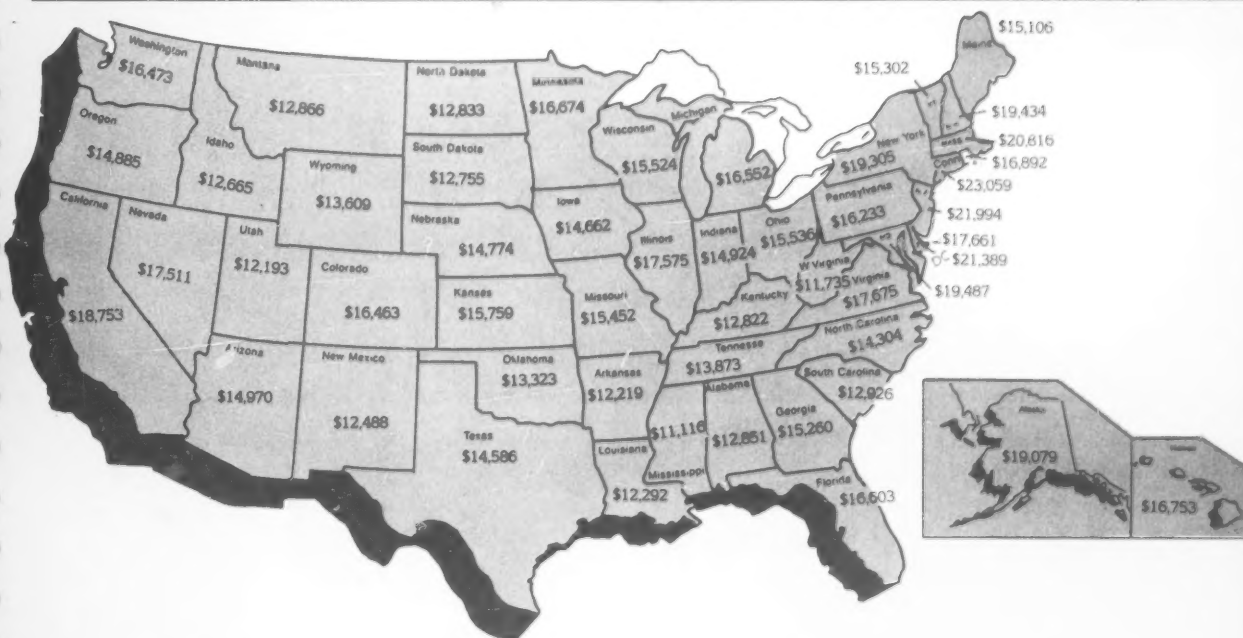
Source: *The Iowa Economic Forecast*, The Institute for Economic Research, University of Iowa, June 1990

Per Capita Personal Income, 1985-1988, Midwest

State	1985	1986	1987 (Dollars)	1988
IOWA	\$12,606	\$13,288	\$14,028	\$14,662
Illinois	\$14,730	\$15,450	\$16,394	\$17,575
Indiana	\$12,425	\$13,168	\$13,987	\$14,924
Kansas	\$13,813	\$14,476	\$15,089	\$15,759
Michigan	\$14,002	\$14,876	\$15,558	\$16,552
Minnesota	\$14,145	\$14,901	\$15,789	\$16,674
Missouri	\$13,250	\$13,914	\$14,630	\$15,452
Nebraska	\$12,967	\$13,509	\$14,100	\$14,774
North Dakota	\$11,953	\$12,355	\$12,825	\$12,833
Ohio	\$13,177	\$13,821	\$14,575	\$15,536
South Dakota	\$11,031	\$11,761	\$12,414	\$12,755
Wisconsin	\$13,172	\$13,902	\$14,674	\$15,524
United States	\$13,896	\$14,596	\$15,472	\$16,489

Source: Survey of Current Business, August 1989, U.S. Department of Commerce, Bureau of Economic Analysis.

Per Capita Personal Income, 1988



Source: Survey of Current Business, August 1989, U.S. Department of Commerce, Bureau of Economic Analysis

Total Personal Income, & Percent Change in Selected Shares of Personal Income

Percent Change, 1987-1988														
					Earnings*									
					Total Personal Income	Trans. & Public Utilities Wholesale and Retail Trade Finance, Insurance, Real Estate Services Govt.								
State	1985	Total 1986 (Millions of Dollars)	1987	1988		Total	Mining	Const.	Manuf.	Trans. & Public Utilities	Wholesale and Retail Trade	Finance, Insurance, Real Estate	Services	Govt.
IOWA	\$36,217	\$38,017	\$40,329	\$41,844	3.8	3.4	1.7	9.7	6.8	7.3	9.8	7.8	8.2	5.1
Illinois	\$169,968	\$179,015	\$190,203	\$203,305	6.9	7.3	-0.6	6.7	9.2	5.8	7.5	10.2	8.4	6.0
Indiana	\$68,338	\$72,434	\$77,078	\$82,076	6.5	6.8	-1.9	9.4	6.6	8.3	8.3	8.5	9.5	8.1
Kansas	\$33,819	\$35,697	\$37,501	\$39,561	5.5	5.4	-3.1	-7.4	4.4	6.9	7.8	7.2	8.9	4.6
Michigan	\$127,250	\$135,372	\$141,933	\$152,400	7.4	7.7	10.7	14.3	6.7	7.1	8.8	12.0	9.0	5.7
Minnesota	\$59,278	\$63,140	\$67,533	\$72,285	7.0	7.4	19.2	14.1	8.0	7.3	10.1	6.4	9.6	8.5
Missouri	\$66,729	\$70,548	\$74,825	\$79,605	6.4	6.3	-4.1	-0.4	6.3	7.2	7.0	6.8	8.6	5.3
Nebraska	\$20,808	\$21,637	\$22,796	\$24,305	6.6	7.5	-0.9	5.5	9.0	7.7	9.0	4.7	9.0	2.8
North Dakota	\$8,182	\$8,427	\$8,709	\$8,430	-3.2	-7.2	5.8	-7.8	7.1	5.9	3.6	6.5	8.0	1.2
Ohio	\$141,972	\$148,764	\$157,497	\$168,344	6.9	7.1	-6.8	8.9	6.4	6.5	8.5	9.4	8.2	7.9
South Dakota	\$7,811	\$8,348	\$8,900	\$8,917	0.2	-2.2	12.1	-0.7	10.6	6.9	7.2	4.9	7.1	3.0
Wisconsin	\$62,900	\$66,537	\$70,767	\$75,028	6.0	6.1	7.1	10.3	8.1	7.4	8.6	7.7	8.7	4.7
United States	\$3,317,545	\$3,522,203	\$3,768,696	\$4,042,110	7.3	7.3	4.0	6.9	6.2	6.8	8.9	8.5	9.5	6.2

*Consists of wage and salary disbursements, other labor income, and proprietor's income.

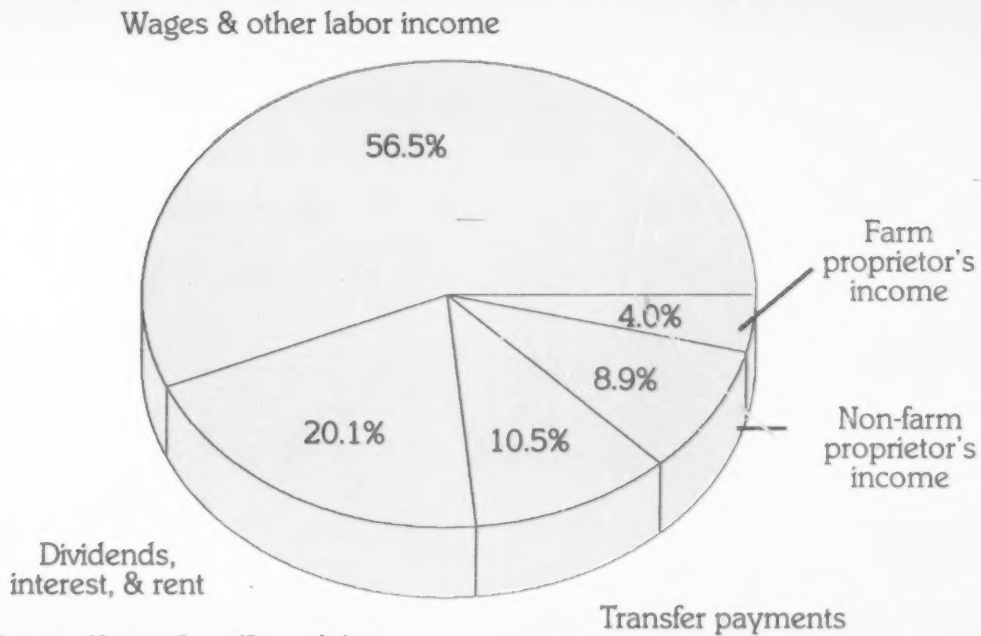
Source: Survey of Current Business, April 1989, U.S. Department of Commerce, Bureau of Economic Analysis.

Personal Income by Source, 1988, Midwest, (Millions of Dollars)

	IOWA	Illinois	Indiana	Kansas	Michigan	Minnesota	Missouri	Nebraska	N. Dakota	Ohio	S. Dakota	Wisconsin
Earnings by Industry												
Farm	\$1,915	\$1,189	\$621	\$1,367	\$623	\$1,577	\$801	\$1,819	\$415	\$769	\$722	\$1,439
Nonfarm	\$26,685	\$150,531	\$60,063	\$25,989	\$111,397	\$52,874	\$58,175	\$15,813	\$5,482	\$122,821	\$5,532	\$52,231
Agricultural services, forestry, fisheries, and other	\$311	\$674	\$257	\$159	\$391	\$264	\$288	\$146	\$46	\$476	\$61	\$307
Mining	\$74	\$960	\$358	\$318	\$416	\$302	\$246	\$49	\$141	\$773	\$99	\$95
Manufacturing	\$6,405	\$32,513	\$20,313	\$5,234	\$39,243	\$12,843	\$12,901	\$2,391	\$374	\$38,006	\$662	\$16,358
Transportation and public utilities	\$1,867	\$11,405	\$4,357	\$2,249	\$5,917	\$3,819	\$5,415	\$1,616	\$590	\$7,363	\$471	\$3,181
Wholesale trade	\$1,991	\$12,169	\$3,320	\$1,931	\$6,501	\$4,061	\$4,305	\$1,253	\$494	\$7,836	\$403	\$3,132
Retail trade	\$2,661	\$13,526	\$5,728	\$2,600	\$9,896	\$5,222	\$5,690	\$1,591	\$586	\$11,456	\$642	\$4,889
Finance, insurance, and real estate	\$1,691	\$13,406	\$2,906	\$1,574	\$5,072	\$3,651	\$3,777	\$1,214	\$297	\$6,549	\$334	\$2,935
Services	\$5,932	\$37,842	\$11,371	\$5,618	\$23,830	\$11,888	\$13,711	\$3,554	\$1,323	\$27,762	\$1,332	\$10,910
Government and government enterprises	\$4,381	\$18,938	\$7,723	\$4,724	\$14,569	\$7,549	\$8,075	\$3,079	\$1,284	\$16,070	\$1,195	\$7,450
Earnings by Place of Work												
Components of earnings:												
Wages and salaries	\$21,190	\$123,641	\$49,713	\$21,036	\$93,240	\$44,290	\$47,313	\$12,884	\$4,472	\$102,957	\$4,294	\$43,379
Other labor income	\$2,073	\$12,089	\$5,116	\$2,046	\$10,510	\$4,279	\$4,630	\$1,159	\$354	\$10,082	\$393	\$4,371
Proprietors' income	\$5,337	\$15,991	\$5,855	\$4,274	\$8,270	\$5,881	\$7,032	\$3,589	\$1,071	\$10,551	\$1,566	\$5,921
Farm	\$1,667	\$944	\$461	\$1,209	\$425	\$1,351	\$653	\$1,642	\$339	\$500	\$652	\$1,138
Nonfarm	\$3,670	\$15,047	\$5,393	\$3,065	\$7,845	\$4,529	\$6,379	\$1,947	\$732	\$9,952	\$915	\$4,783
Derivation of Total Personal Income:												
Earnings by place of work	\$28,600	\$151,720	\$60,684	\$27,356	\$112,020	\$54,450	\$58,976	\$17,632	\$5,897	\$123,590	\$6,254	\$53,671
Less: Personal contributions for social insurance	\$1,892	\$10,232	\$3,758	\$1,813	\$7,513	\$3,907	\$3,782	\$1,188	\$426	\$8,973	\$420	\$3,521
Plus: Adjustment for residence	\$342	(\$100)	\$1,358	\$1,053	\$878	(\$376)	(\$2,416)	(\$354)	(\$182)	(\$937)	\$16	\$1,011
Equals: Net earnings by place of residence	\$27,049	\$141,388	\$58,283	\$26,596	\$105,385	\$50,166	\$52,777	\$16,090	\$5,289	\$113,679	\$5,850	\$51,161
Plus: Dividends, interest, and rent	\$8,283	\$36,102	\$13,191	\$7,274	\$24,231	\$12,180	\$14,884	\$4,326	\$1,781	\$27,068	\$1,727	\$12,966
Plus: Transfer payments	\$6,218	\$26,625	\$11,450	\$5,450	\$23,319	\$9,460	\$11,779	\$3,254	\$1,490	\$27,888	\$1,518	\$11,235

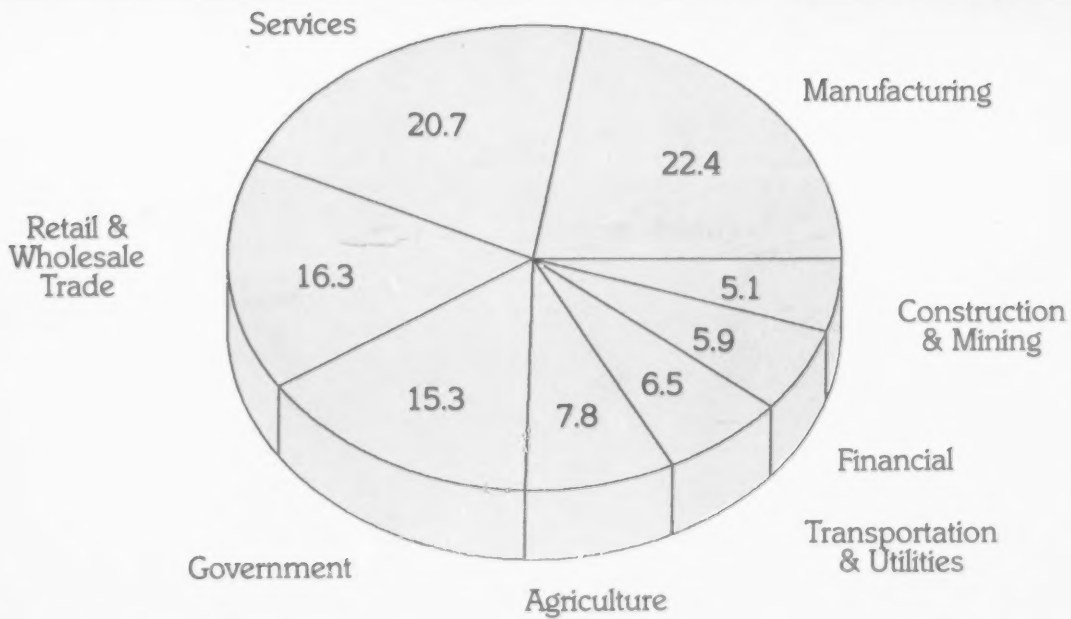
Source: Survey of Current Business, August 1989, U.S. Department of Commerce, Bureau of Economic Analysis.

Major Sources of Personal Income in Iowa, 1988



Source: U.S. Department of Commerce, Bureau of Economic Analysis

% Income Earned by Industry in Iowa, 1988



Source: U.S. Department of Commerce, Bureau of Economic Analysis

Trend in Personal Income by Source, Iowa, (Millions of Dollars)

	1965	1970	1975	1980	1985	1986	1987	1988
Earnings by Industry								
Farm	N/A	N/A	1,777	N/A	1,905	2,732	2,648	1,915
Nonfarm	N/A	N/A	10,652	17,959	22,576	23,052	24,755	26,685
Agricultural services, forestry, fisheries, and other	N/A	N/A	N/A	N/A	N/A	158	276	311
Mining	19	26	50	1,871	90	67	75	74
Manufacturing	1,233	1,791	3,044	1,161	5,442	5,457	5,989	6,405
Transportation and public utilities	309	418	814	1,357	4,696	1,730	1,793	1,867
Wholesale trade	N/A	N/A	936	3,440	1,698	1,698	1,789	1,991
Retail trade	N/A	N/A	1,136	1,523	2,355	2,374	2,462	2,661
Finance, insurance, and real estate	185	283	567	1,917	1,459	1,469	1,585	1,691
Services	409	653	1,518	1,357	4,696	5,073	5,453	5,932
Government and government enterprises	678	1,098	1,711	2,661	3,678	3,831	4,077	4,381
Earnings by Place of Work								
Components of earnings:								
Wages and salaries	3,876	5,808	8,992	14,930	17,751	18,282	19,628	21,190
Other labor income	198	333	735	1,436	1,808	1,784	1,926	2,073
Proprietors' income	1,884	2,114	2,702	2,754	4,922	5,718	5,849	5,337
Farm	1,133	1,287	1,601	904	1,610	2,476	2,391	1,667
Nonfarm	751	827	1,101	1,849	3,313	3,240	3,457	3,670
Derivation of Total Personal Income								
Earnings by place of work	N/A	N/A	N/A	N/A	N/A	25,784	27,403	28,600
Less: Personal contributions for social insurance	154	331	637	1,080	1,525	1,565	1,672	1,892
Plus: Adjustment for residence	N/A	N/A	N/A	N/A	N/A	283	321	342
Equals: Net earnings by place of residence	N/A	N/A	N/A	N/A	N/A	24,501	26,052	27,049
Plus: Dividends, interest, and rent	1,188	1,639	2,836	5,549	7,549	7,544	7,645	8,283
Plus: Transfer payments	542	1,047	2,037	3,465	5,498	5,694	5,903	6,218
Total Personal Income (by Place of Residence)	N/A	N/A	16,783	28,193	36,315	37,740	39,600	41,551
Source: Survey of Current Business, May 1988, U.S. Department of Commerce, Bureau of Economic Analysis								

Total Personal Income & Per Capita Personal Income by County, 1985-1987

County	Total Personal Income (Millions of Dollars)			Per Capita Personal Income (Dollars)			Rank in 1987
	1985	1986	1987	1985	1986	1987	
Adair	\$97	\$107	\$115	\$10,729	\$12,247	\$13,549	56
Adams	\$59	\$67	\$73	\$10,717	\$12,510	\$13,666	49
Allamakee	\$153	\$166	\$180	\$10,006	\$11,073	\$12,060	92
Appanoose	\$149	\$159	\$169	\$10,234	\$11,096	\$11,863	94
Audubon	\$90	\$97	\$107	\$10,968	\$12,235	\$13,847	43
Benton	\$279	\$301	\$314	\$12,148	\$13,201	\$13,774	47
Black Hawk	\$1,569	\$1,569	\$1,676	\$11,939	\$12,289	\$13,323	64
Boone	\$324	\$338	\$353	\$12,551	\$13,169	\$13,854	42
Bremner	\$290	\$296	\$313	\$11,904	\$12,384	\$13,316	65
Buchanan	\$232	\$247	\$265	\$10,290	\$11,316	\$12,315	88
Buena Vista	\$265	\$280	\$289	\$12,844	\$13,526	\$14,159	34
Butler	\$195	\$202	\$210	\$11,446	\$12,082	\$12,842	80
Calhoun	\$161	\$168	\$177	\$12,752	\$13,719	\$14,630	22
Carroll	\$296	\$312	\$334	\$12,949	\$13,825	\$14,955	13
Cass	\$205	\$215	\$229	\$12,402	\$13,423	\$14,520	25
Cedar	\$235	\$243	\$259	\$12,540	\$13,179	\$14,203	32
Cerro Gordo	\$617	\$647	\$679	\$12,574	\$13,266	\$14,114	36
Cherokee	\$178	\$188	\$196	\$11,434	\$12,353	\$13,050	73
Chickasaw	\$176	\$186	\$197	\$11,667	\$12,522	\$13,535	57
Clarke	\$95	\$101	\$110	\$10,988	\$11,723	\$12,877	79
Clay	\$224	\$234	\$245	\$12,006	\$12,949	\$13,788	46
Clayton	\$210	\$230	\$246	\$9,990	\$11,208	\$12,048	93
Clinton	\$644	\$667	\$696	\$11,793	\$12,435	\$13,163	68
Crawford	\$197	\$215	\$227	\$10,357	\$11,611	\$12,353	86
Dallas	\$379	\$406	\$432	\$12,668	\$13,663	\$14,500	26
Davis	\$90	\$94	\$100	\$10,061	\$10,594	\$11,453	98
Decatur	\$81	\$84	\$89	\$8,892	\$9,477	\$10,236	99
Delaware	\$195	\$220	\$237	\$10,155	\$11,662	\$12,696	81
Des Moines	\$574	\$596	\$627	\$12,798	\$13,442	\$14,181	33
Dickinson	\$195	\$207	\$221	\$12,605	\$13,534	\$14,705	18
Dubuque	\$1,054	\$1,087	\$1,176	\$11,473	\$11,945	\$12,966	77
Emmet	\$150	\$154	\$157	\$12,105	\$13,009	\$13,559	55
Fayette	\$256	\$271	\$288	\$10,588	\$11,557	\$12,469	85
Floyd	\$215	\$226	\$240	\$11,277	\$12,229	\$13,069	72
Franklin	\$150	\$163	\$164	\$11,896	\$13,153	\$13,488	59
Fremont	\$125	\$132	\$133	\$13,902	\$14,828	\$14,918	15
Greene	\$151	\$161	\$170	\$13,129	\$14,471	\$15,608	6
Grundy	\$186	\$192	\$207	\$13,703	\$14,585	\$15,861	3
Guthrie	\$134	\$144	\$155	\$11,725	\$12,716	\$13,612	53
Hamilton	\$246	\$265	\$275	\$14,267	\$15,433	\$16,112	2
Hancock	\$170	\$179	\$184	\$12,393	\$13,333	\$13,824	45
Hardin	\$276	\$296	\$303	\$12,973	\$14,357	\$14,910	16
Harrison	\$187	\$188	\$195	\$11,690	\$11,781	\$12,328	87
Henry	\$237	\$253	\$268	\$12,770	\$13,390	\$14,135	35
Howard	\$121	\$136	\$143	\$11,147	\$12,774	\$13,515	58
Humboldt	\$143	\$152	\$157	\$12,054	\$13,182	\$13,902	39
Ida	\$108	\$116	\$123	\$12,177	\$13,179	\$14,255	30
Iowa	\$191	\$202	\$220	\$12,548	\$13,398	\$14,574	24
Jackson	\$232	\$241	\$265	\$10,397	\$10,950	\$12,201	90
Jasper	\$486	\$506	\$545	\$13,582	\$14,101	\$15,180	10
Jefferson	\$184	\$202	\$213	\$11,115	\$12,269	\$12,908	78
Johnson	\$1,174	\$1,266	\$1,352	\$13,738	\$14,796	\$15,747	4
Jones	\$212	\$228	\$246	\$10,473	\$11,449	\$12,315	89
Keokuk	\$151	\$165	\$177	\$12,059	\$13,430	\$14,737	17
Kossuth	\$256	\$273	\$271	\$12,200	\$13,425	\$13,630	51
Lee	\$508	\$519	\$530	\$12,204	\$12,5	\$13,008	75
Linn	\$2,314	\$2,437	\$2,616	\$13,689	\$14,430	\$15,429	7
Louisa	\$146	\$156	\$165	\$12,162	\$13,064	\$13,830	44
Lucas	\$115	\$121	\$128	\$11,477	\$12,360	\$13,303	66
Lyon	\$146	\$155	\$160	\$11,549	\$12,493	\$13,011	74
Madison	\$148	\$161	\$170	\$11,870	\$12,942	\$13,642	50
Mahaska	\$260	\$279	\$295	\$11,607	\$12,486	\$13,273	67
Marion	\$393	\$418	\$451	\$13,203	\$13,919	\$15,030	12
Marshall	\$539	\$553	\$584	\$13,156	\$13,669	\$14,666	20
Mills	\$171	\$181	\$185	\$12,687	\$13,519	\$13,864	40
Mitchell	\$141	\$154	\$162	\$11,978	\$13,173	\$13,994	38
Monona	\$134	\$143	\$148	\$12,234	\$13,349	\$14,090	37
Monroe	\$96	\$99	\$107	\$10,940	\$11,558	\$12,676	83
Montgomery	\$165	\$173	\$180	\$12,681	\$13,833	\$14,670	19
Muscatine	\$569	\$586	\$616	\$13,761	\$14,182	\$14,924	14
O'Brien	\$208	\$223	\$233	\$12,668	\$13,908	\$14,660	21
Oscarla	\$87	\$94	\$99	\$10,799	\$11,939	\$12,694	82

Total Personal Income & Per Capita Personal Income by County, 1985-1987 (cont'd)

County	Total Personal Income (Millions of dollars)			Per Capita Personal Income (Dollars)			Rank in 1987
	1985	1986	1987	1985	1986	1987	
Page							
Palo Alto	\$207	\$220	\$225				
Plymouth	\$155	\$159	\$163	\$11,439	\$12,509	\$12,994	76
Pocahontas	\$282	\$300	\$328	\$12,800	\$13,744	\$14,440	27
Polk	\$145	\$150	\$151	\$11,753	\$12,520	\$13,576	54
Pottawattamie	\$4,703	\$4,953	\$5,314	\$13,076	\$13,909	\$14,218	31
Poweshiek	\$1,067	\$1,108	\$1,159	\$14,980	\$15,670	\$16,644	1
Ringgold	\$236	\$257	\$281	\$12,107	\$12,602	\$13,129	70
Sac	\$60	\$66	\$73	\$12,469	\$13,792	\$15,077	11
Scott	\$163	\$179	\$182	\$10,394	\$11,891	\$13,379	62
Shelby	\$2,181	\$2,263	\$2,408	\$12,344	\$13,889	\$14,275	29
Sioux	\$177	\$183	\$193	\$13,746	\$14,422	\$15,424	8
Story	\$323	\$336	\$356	\$11,932	\$12,676	\$13,415	61
Tama	\$879	\$916	\$968	\$10,493	\$11,112	\$11,823	95
Taylor	\$231	\$240	\$253	\$12,043	\$12,696	\$13,486	60
Union	\$89	\$91	\$96	\$12,045	\$12,742	\$13,706	48
Van Buren	\$154	\$163	\$172	\$11,105	\$11,678	\$12,660	84
Wapello	\$83	\$88	\$94	\$11,620	\$12,388	\$13,159	69
Warren	\$434	\$431	\$452	\$9,971	\$10,606	\$11,599	97
Washington	\$432	\$451	\$482	\$11,155	\$11,330	\$12,119	91
Wayne	\$261	\$273	\$287	\$12,079	\$12,550	\$13,376	63
Webster	\$83	\$88	\$95	\$13,013	\$13,686	\$14,586	23
Winnebago	\$526	\$551	\$575	\$10,886	\$11,864	\$13,081	71
Winneshiek	\$171	\$183	\$193	\$11,099	\$12,958	\$13,620	52
Woodbury	\$220	\$243	\$256	\$13,251	\$14,359	\$15,319	9
Worth	\$1,237	\$1,288	\$1,397	\$9,914	\$11,105	\$11,800	96
Wright	\$108	\$114	\$120	\$12,418	\$13,102	\$14,298	28
IOWA	\$223	\$228	\$233	\$12,001	\$13,000	\$13,860	41
	\$36,217	\$38,017	\$40,329	\$14,209	\$15,008	\$15,713	5
				\$12,569	\$13,341	\$14,230	—

Source: Survey of Current Business, April 1989, U.S. Department of Commerce, Bureau of Economic Analysis.

Total Personal Income & Per Capita Personal Income by Metropolitan Area, 1985-87

MSA	Total Personal Income (Millions of dollars)			Per Capita Personal Income (Dollars)		
	1985	1986	1987	1985	1986	1987
Cedar Rapids	2,314	2,437	2,616	13,689	14,430	15,429
Davenport-Rock Island-Moline	4,956	5,061	5,363	13,149	13,645	14,627
Des Moines	5,514	5,811	6,228	14,524	15,220	16,173
Dubuque	1,054	1,087	1,176	11,473	11,945	12,966
Iowa City	1,174	1,266	1,352	13,738	14,796	15,747
Omaha-Council Bluffs	8,451	8,802	9,267	13,831	14,373	15,033
Sioux City	1,432	1,485	1,597	12,238	12,848	13,926
Waterloo-Cedar Falls	1,859	1,865	1,989	11,934	12,304	13,322

Source: Survey of Current Business, April 1989, U.S. Department of Commerce, Bureau of Economic Analysis.

Effective Buying Income* for Iowa Counties and MSA's, 1988

County	Total EBI (\$000)	Median Household EBI (\$)	% of Households by EBI Group			
			(A) \$10,000-\$19,999 (B) \$20,000-\$34,999 (C) \$35,000-\$49,999 (D) \$50,000 & Over			
			A	B	C	D
Adair	75,421	15,046	32.7	22.9	7.4	5.6
Adams	42,615	15,324	32.6	26.8	6.4	3.2
Allamakee	100,736	13,747	33.1	22.3	6.1	2.0
Appanoose	114,232	13,273	30.1	24.1	6.1	2.3
Audubon	55,133	13,537	37.9	19.7	4.3	4.3
Benton	214,492	19,140	26.5	31.4	11.4	4.9
Black Hawk	1,603,270	26,678	20.1	30.5	19.4	13.5
Boone	277,042	20,705	26.8	29.8	14.5	7.4
Bremer	275,116	24,853	22.0	31.5	17.3	11.3
Puchanan	193,506	18,433	27.5	30.6	10.5	5.4
Buena Vista	183,345	16,963	30.5	27.9	8.8	5.8
Butler	136,615	16,943	30.0	29.9	7.1	4.5
Calhoun	111,743	16,930	30.6	25.0	9.5	6.4
Carroll	194,954	17,081	33.1	28.2	8.2	5.1
Cass	160,738	17,767	30.1	27.4	10.5	6.0
Cedar	167,239	17,966	28.4	30.7	9.5	4.7
Cerro Gordo	524,046	20,030	26.7	31.5	11.6	6.9
Cherokee	140,066	16,592	30.9	26.0	8.9	6.6
Chickasaw	116,504	16,951	30.1	28.8	8.3	4.4
Clarke	70,091	14,892	30.9	24.8	7.6	3.8
Clay	182,345	17,713	31.2	27.4	9.4	7.5
Clayton	174,506	15,403	31.1	24.7	7.6	4.8
Clinton	566,720	22,653	23.9	33.5	16.7	6.5
Crawford	147,819	16,232	30.0	29.1	7.2	3.9
Dallas	316,623	21,050	26.6	33.2	12.9	6.6
DeWitt	72,619	15,583	27.0	25.3	7.8	5.5
Decatur	70,220	14,394	29.0	24.6	7.6	3.5
Delaware	166,044	19,080	27.3	30.6	11.3	5.7
Des Moines	514,869	22,091	24.9	30.4	16.0	8.0
Dickinson	164,245	19,480	30.4	29.8	11.4	7.3
Dubuque	908,894	22,566	23.2	32.8	15.4	7.6
Emmet	103,854	16,827	29.8	30.4	7.0	4.5
Fayette	205,643	16,753	30.4	27.4	9.0	4.9
Floyd	163,846	17,509	29.7	28.4	10.4	4.2
Franklin	120,525	18,254	29.4	29.7	10.5	5.1
Fremont	91,955	17,522	29.2	26.5	10.6	6.3
Greene	113,049	17,635	28.2	28.1	9.5	6.7
Grundy	147,529	21,482	26.2	32.5	12.8	8.5
Guthrie	97,633	15,057	30.3	25.2	7.8	3.6
Hamilton	168,799	18,983	30.1	30.2	9.6	7.3
Hancock	135,001	18,463	30.8	31.2	9.4	5.7
Hardin	200,769	18,404	28.6	30.4	9.8	5.9
Harrison	124,293	15,435	29.9	25.5	8.4	3.9
Henry	201,840	20,521	27.9	31.2	12.5	7.6
Howard	88,186	15,330	30.4	24.4	7.6	4.8
Humboldt	115,836	17,293	31.8	29.2	8.8	5.0
Ida	76,656	15,075	32.3	25.8	5.7	5.1
Iowa	157,160	20,847	26.4	34.2	11.6	6.5
Jackson	188,094	17,813	27.1	32.4	7.0	5.0
Jasper	381,135	20,928	26.6	32.7	13.6	6.3
Jefferson	187,437	20,051	26.4	28.9	11.9	9.4
Johnson	1,038,304	21,192	25.8	26.1	14.4	12.0
Jones	175,433	18,891	27.1	31.5	11.4	4.1
Keokuk	109,157	16,824	31.4	25.4	9.1	6.0
Kossuth	173,676	16,504	31.5	27.3	8.3	5.2
Lee	446,645	20,665	26.2	30.2	13.8	7.6
Linn	2,157,560	25,797	21.5	32.4	20.1	10.3
Louisa	126,494	21,905	24.5	32.8	14.2	7.9
Lucas	87,431	15,152	29.5	25.8	7.8	3.8
Lyon	84,777	13,878	33.4	20.7	5.4	4.1
Madison	100,687	16,844	27.9	27.8	9.4	4.0
Mahaska	198,864	16,087	32.0	27.0	6.9	4.5
Marion	316,555	21,898	25.2	32.4	14.5	8.1
Marshall	479,131	23,425	23.8	31.9	17.0	9.0
Mills	120,657	19,152	30.7	32.0	9.9	5.8
Mitchell	104,582	15,489	30.9	23.6	8.9	6.4
Monona	85,087	14,067	34.4	20.9	6.2	3.4
Monroe	93,907	20,816	27.0	28.4	14.6	8.9
Montgomery	123,860	17,489	30.6	28.9	10.5	4.1
Muscatine	507,754	25,152	20.8	29.6	17.2	13.7

Effective Buying Income* for Iowa Counties and MSA's, 1988 (continued)

County	Total EBI (\$000)	Median Household EBI (\$)	% of Households by EBI Group			
			(A) \$10,000-\$19,999	(B) \$20,000-\$34,999	(C) \$35,000-\$49,999	(D) \$50,000 & Over
			A	B	C	D
Osceola	67,455	15,792	32.5	25.4	8.5	4.6
O'Brien	139,540	15,964	31.9	25.1	8.1	5.3
Page	182,286	17,840	30.3	27.6	10.9	5.7
Palo Alto	99,360	16,203	32.1	25.1	9.7	4.7
Phymouth	203,318	15,702	33.3	25.1	6.8	5.2
Pocahontas	100,306	16,932	32.3	26.1	9.0	6.9
Polk	4,264,049	24,737	22.8	30.2	17.6	12.2
Pottawattamie	987,402	22,853	23.9	30.6	16.5	9.4
Poweshiek	195,801	20,344	26.7	31.0	13.4	6.4
Ringgold	37,617	10,621	28.2	17.3	4.0	3.0
Sac	102,688	14,049	37.6	22.3	5.1	3.5
Scott	1,975,001	26,030	20.7	31.5	19.6	11.9
Shelby	131,283	17,320	33.1	28.3	8.5	5.6
Sioux	250,744	17,560	34.0	29.4	7.6	4.9
Story	820,347	22,712	24.7	28.2	16.7	10.8
Tama	157,041	17,644	29.9	30.3	9.4	4.1
Taylor	61,145	13,776	32.5	21.0	7.3	3.6
Union	134,034	18,041	28.6	27.3	11.5	5.9
Van Buren	60,454	14,012	29.9	24.0	6.4	3.5
Wapello	376,051	17,754	28.4	28.4	11.0	5.3
Warren	407,752	25,287	21.8	35.0	18.4	8.6
Washington	191,508	17,812	30.0	27.8	10.1	6.9
Wayne	51,422	11,718	33.2	17.2	4.6	2.5
Webster	401,550	17,582	29.0	28.7	9.8	5.2
Winnebago	142,879	20,535	29.6	31.2	13.4	6.8
Winneshiek	191,947	16,943	30.5	25.9	10.2	6.5
Woodbury	996,247	19,362	26.2	29.6	12.0	6.8
Worth	84,553	18,284	32.3	28.8	10.7	5.7
Wright	192,607	22,864	23.7	28.3	15.8	12.9
MSA's						
Cedar Rapids	2,157,560	25,797	21.5	32.4	20.1	10.3
Davenport, Rock Is. Moline	4,694,948	26,426	20.0	30.2	19.6	13.5
Des Moines	4,988,424	24,465	22.9	30.9	17.2	11.5
Dubuque	908,894	22,566	23.2	32.8	15.4	7.6
Iowa City	1,038,304	21,192	25.8	26.1	14.4	12.0
Sioux City	1,186,505	20,007	25.7	30.4	12.5	7.1
Waterloo-Cedar Falls	1,878,386	26,390	20.4	30.8	19.1	13.1
Total Metro Counties	14,930,218	24,171	22.7	30.8	17.4	10.8
Total State	30,647,996	20,618	26.1	29.6	13.7	8.2

* Effective Buying Income (EBI) is personal income less personal tax and nontax payments. Personal Income is the aggregate of wages and salaries, other labor income, proprietor's income, rental income, dividends paid by corporations, personal interest income from all sources and transfer payments. Deducted from this total are personal taxes (federal, state, and local) & nontax payments (such as fines, fees, penalties, and social insurance).

Source: Reprinted by Permission of Sales & Marketing Management, Copyright: Survey of Buying Power, August 7, 1989.

GOVERNMENT FINANCES/TAXES

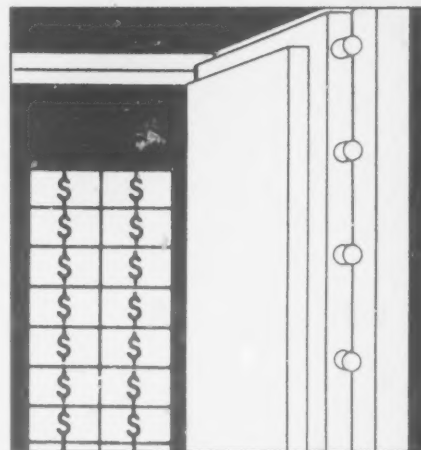
Iowa's per capita debt is one of the nation's lowest, so more of our state's revenue is spent on programs instead of on paying interest.

The unemployment trust fund in Iowa has built up such a large balance that businesses will receive a \$31 million tax cut this year. The average annual cost for employers will drop from \$225 to \$190 per worker without endangering jobless payments to the unemployed.

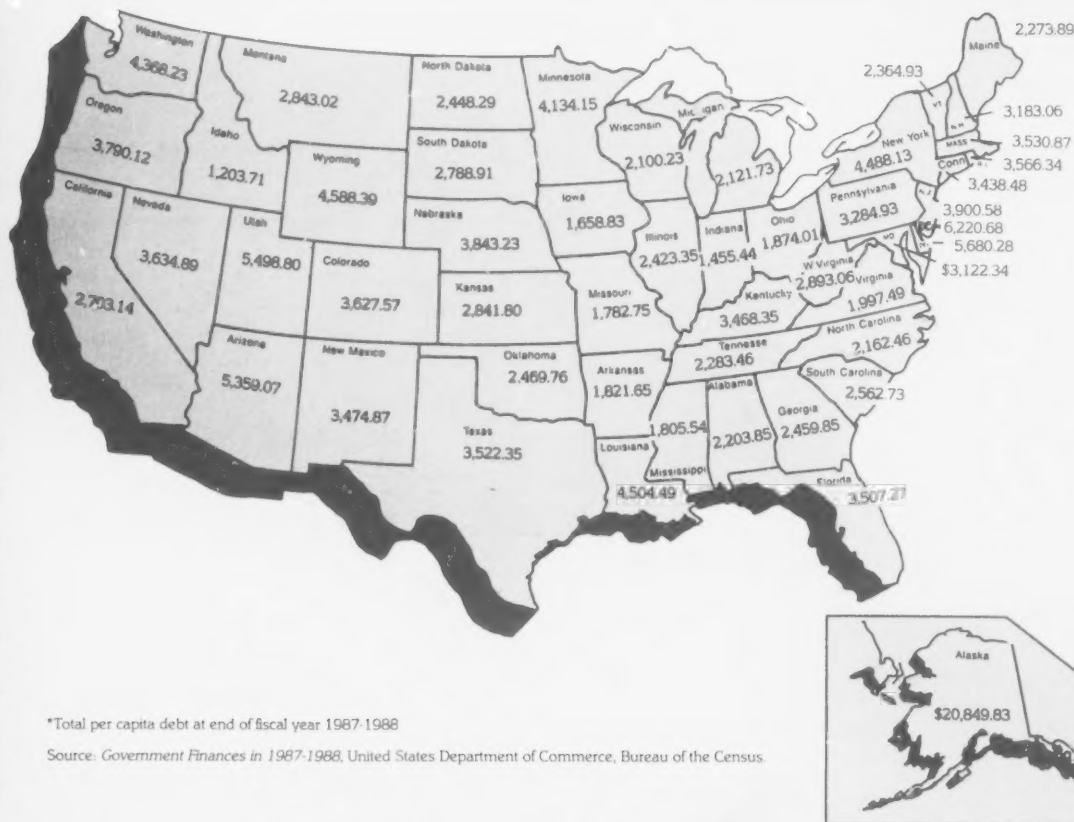
A single-factor, non-unitary corporate income tax allows Iowa companies to reduce their tax burden by not having to pay income taxes on sales from outside the state. Businesses are also allowed a 50 percent deduction of federal income taxes on their state forms.

Companies can reduce their taxes further through the New Jobs Tax Credit. Last year, this credit was over \$700 per new employee. Research and development tax credits allow businesses to remain progressive.

There is no tax on personal property in Iowa, and this includes corporate inventories of salable goods, raw materials, and goods in transit. In Iowa, there are no sales and use taxes on industrial machinery, equipment, and computers.



Per Capita State and Local Government Debt*, 1987-88



*Total per capita debt at end of fiscal year 1987-1988

Source: *Government Finances in 1987-1988*, United States Department of Commerce, Bureau of the Census.

Per Capita State & Local Govt. Expenditures: Iowa/Midwest/U.S., 1987-88

State	Total General Expenditures	Higher Education	Elementary & Secondary Education	Public Welfare	Health and Hospitals	Highways	Police	Correction	Interest on General Debt
IOWA	\$2,654.48	\$376.40	\$655.60	\$320.63	\$244.93	\$334.55	\$69.15	\$37.99	\$110.36
Illinois	\$2,611.40	\$225.43	\$613.35	\$342.65	\$160.72	\$233.11	\$118.00	\$52.01	\$159.12
Indiana	\$2,297.53	\$283.45	\$629.76	\$268.54	\$230.04	\$181.46	\$61.62	\$42.97	\$91.05
Kansas	\$2,562.40	\$300.60	\$667.73	\$224.81	\$216.97	\$311.94	\$77.19	\$45.43	\$191.76
Michigan	\$3,129.86	\$374.74	\$783.34	\$483.17	\$316.10	\$186.72	\$113.81	\$83.37	\$122.39
Minnesota	\$3,470.29	\$326.62	\$798.53	\$497.26	\$283.79	\$330.06	\$88.85	\$53.42	\$264.74
Missouri	\$2,141.14	\$210.88	\$593.39	\$223.55	\$223.16	\$193.18	\$85.99	\$47.90	\$118.76
Nebraska	\$2,597.79	\$301.10	\$676.31	\$273.70	\$278.61	\$286.02	\$70.69	\$40.41	\$127.30
North Dakota	\$2,920.91	\$410.53	\$660.90	\$364.66	\$119.69	\$366.09	\$56.14	\$30.00	\$165.49
Ohio	\$2,579.79	\$225.73	\$693.48	\$413.11	\$216.47	\$185.10	\$88.80	\$67.18	\$126.28
South Dakota	\$2,355.22	\$188.04	\$612.34	\$230.12	\$126.72	\$361.43	\$64.74	\$34.80	\$199.82
Wisconsin	\$2,965.79	\$340.21	\$786.34	\$494.18	\$186.30	\$235.59	\$107.39	\$48.29	\$144.92
U.S.	\$2,867.68	\$255.03	\$690.36	\$362.48	\$251.98	\$226.28	\$106.90	\$77.14	\$180.30

Source: Government Finances in 1987-1988, United States Department of Commerce, Bureau of the Census.

Sales Tax (Percent and Per Capita) by State

State	Percent (1989)	Highest Combined State & Local	Per Capita (1988)	
			Dollars	Rank in U.S.
IOWA	4.00	5.00	\$303.12	33
Alabama	4.00	9.00	\$224.80	42
Alaska	0.00	6.00	N/A	N/A
Arizona	5.00	8.00	\$492.31	6
Arkansas	4.00	8.00	\$320.84	24
California	6.00	7.00	\$408.81	10
Colorado	3.00	8.00	\$220.15	44
Connecticut	8.00	8.00	\$612.15	3
Delaware	0.00	0.00	N/A	N/A
District of Columbia	6.00	6.00	N/A	N/A
Florida	6.00	7.00	\$554.47	4
Georgia	4.00	6.00	\$290.05	36
Hawaii	4.00	4.00	\$841.53	1
Idaho	5.00	5.00	\$328.78	22
Illinois	6.25	8.00	\$318.55	27
Indiana	5.00	5.00	\$423.66	9
Kansas	4.25	6.25	\$311.87	29
Kentucky	5.00	5.00	\$255.78	39
Louisiana	4.00	8.00	\$294.32	35
Maine	5.00	5.00	\$407.91	11
Maryland	5.00	5.00	\$306.54	32
Massachusetts	5.00	5.00	\$344.25	21
Michigan	4.00	4.00	\$313.88	28
Minnesota	6.00	7.00	\$389.37	13
Mississippi	6.00	6.00	\$383.43	15
Missouri	4.225	7.225	\$327.59	23
Montana	0.00	0.00	N/A	N/A
Nebraska	4.00	5.50	\$279.69	38
Nevada	5.75	6.00	\$515.48	5
New Hampshire	0.00	0.00	N/A	N/A
New Jersey	6.00	6.00	\$406.32	12
New Mexico	4.75	6.50	\$490.00	7
New York	4.00	8.25	\$307.90	31
North Carolina	3.00	5.00	\$249.41	40
North Dakota	6.00	7.00	\$308.89	30
Ohio	5.00	7.00	\$296.08	34
Oklahoma	4.00	8.00	\$231.97	41
Oregon	0.00	0.00	N/A	N/A
Pennsylvania	6.00	6.00	\$319.83	26
Rhode Island	6.00	6.00	\$385.13	14
South Carolina	5.00	5.00	\$357.70	19
South Dakota	4.00	7.00	\$366.92	17
Tennessee	5.50	8.25	\$435.51	8
Texas	6.00	8.00	\$373.72	16
Utah	6.00	7.25	\$348.60	20
Vermont	4.00	4.00	\$222.10	43
Virginia	4.50	4.50	\$198.27	45
Washington	7.00	8.10	\$769.33	2
West Virginia	6.00	6.00	\$285.30	37
Wisconsin	5.00	5.50	\$364.15	18
Wyoming	3.00	5.00	\$320.69	25

Source: State Government Tax Collections in 1988, U.S. Department of Commerce, Bureau of the Census.

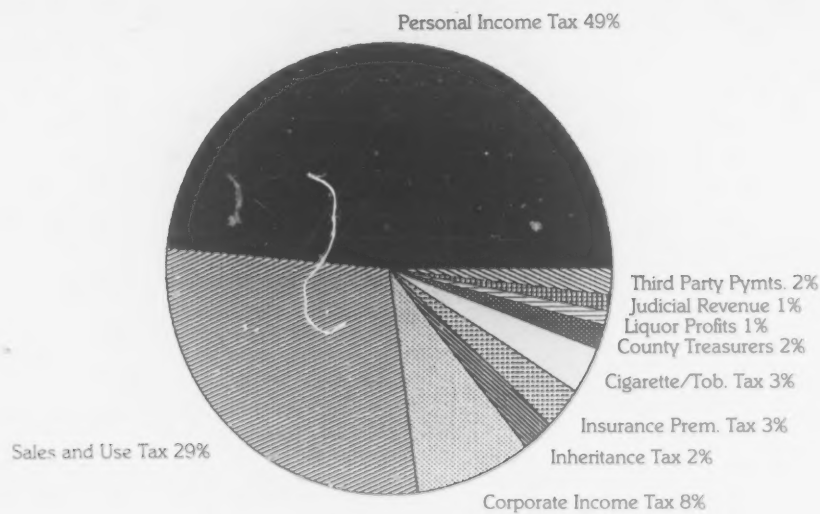
State of Iowa General Fund Receipts, 1987-89

Twelve Months Actual Through June (Millions of Dollars)

	1987	1988	1989
Special Taxes:			
Personal Income Taxes	\$1,133.6	\$1,235.1	\$1,368.0
Sales and Use Tax	\$745.5	\$762.2	\$805.5
Corporate Income Tax	\$185.7	\$195.3	\$236.0
Inheritance Tax	\$58.4	\$58.9	\$66.5
Insurance Premium Tax	\$76.5	\$81.0	\$84.9
Cigarette and Tobacco Tax	\$77.5	\$83.2	\$92.2
Beer and Liquor Tax	\$12.8	\$12.7	\$12.6
Franchise Tax	\$4.3	\$8.5	\$22.7
Miscellaneous Tax	\$0.3	\$0.3	\$0.4
Total Special Taxes	\$2,294.6	\$2,437.2	\$2,688.8
Other Receipts:			
County Treasurers	\$41.7	\$38.3	\$50.9
Liquor Profits	\$27.1	\$10.9	\$28.4
Interest	\$19.3	\$16.5	\$12.4
Fees	\$19.4	\$13.9	\$14.8
Judicial Revenue	\$28.5	\$30.8	\$33.6
Third Party Payments-Institutions	\$44.0	\$48.1	\$53.8
Miscellaneous Receipts	\$20.9	\$10.4	\$13.6
Racing/Gaming Receipts	\$10.8	\$11.1	\$10.9
Transfers	\$3.2	\$3.2	\$10.9
Total Gross Receipts	\$2,509.5	\$2,620.4	\$2,918.1

Source: Iowa Department of Management

Percent of General Fund Receipts (Fiscal Year Ending June 30, 1989)



Note: Categories less than 1% not listed

Source: Iowa Department of Management

State Government Revenues by Type of Tax, Iowa, 1985-88

(Thousands of Dollars)

Tax Source	1985	1986	1987	1988
SALES AND GROSS RECEIPTS	\$1,071,146	\$1,158,962	\$1,245,335	\$1,302,013
General sales or gross receipts (net)	\$757,766	\$768,564	\$826,107	\$859,033
Refunds	(\$11,849)	(\$15,901)	(\$15,921)	(\$13,563)
Retailer's and consumer's use tax (gross)	\$91,128	\$95,383	\$102,720	\$94,895
Motor vehicle use tax (gross)	\$92,275	\$86,056	\$96,508	\$110,386
Sales tax (gross)	\$586,212	\$602,216	\$642,800	\$667,315
Utilities and Transportation	\$92,430	\$100,948	\$95,394	\$102,431
Wholesale goods	\$87,266	\$73,259	\$79,997	\$72,669
Services	\$64,289	\$74,073	\$81,410	\$86,282
General Merchandise	\$64,637	\$72,191	\$80,854	\$86,415
Eating and drinking places	\$50,886	\$54,060	\$59,012	\$62,192
Specialty retail stores	\$47,346	\$48,755	\$51,495	\$54,051
Automotive services	\$35,336	\$33,626	\$35,736	\$37,769
Building materials	\$34,291	\$30,376	\$34,245	\$35,233
Food dealers	\$29,534	\$35,417	\$38,034	\$39,438
Home furnishings and appliances	\$19,959	\$20,267	\$22,808	\$25,091
Apparel group	\$19,843	\$22,438	\$22,161	\$22,688
Miscellaneous	\$34,408	\$36,806	\$41,655	\$43,041
Selective sales and gross receipts	\$313,380	\$390,398	\$419,228	\$442,980
Motor fuels (net)	\$182,417	\$230,549	\$252,041	\$266,094
Refunds	(\$16,160)	(\$11,867)	(\$12,779)	(\$13,148)
Gross collections	\$198,577	\$242,416	\$264,820	\$279,242
Alcoholic beverages	\$16,271	\$14,825	\$13,107	\$12,645
Beer	\$9,788	\$9,367	\$12,527	\$12,639
15 percent tax	\$6,483	\$5,458	\$580	\$6
Tobacco products-cigarettes	\$59,060	\$72,260	\$77,590	\$83,208
Insurance-gross premiums	\$55,632	\$72,764	\$76,490	\$81,033
LICENSE	\$196,442	\$236,417	\$255,572	\$254,887
Motor vehicles	\$136,058	\$168,854	\$176,462	\$184,489
General	\$134,488	\$168,618	\$176,222	\$184,232
Truckers	\$1,570	\$236	\$240	\$257
Motor vehicle operators	\$11,251	\$12,045	\$11,554	\$9,380
Corporations in general	\$17,541	\$18,354	\$13,879	\$12,090
Franchise tax	\$14,285	\$14,303	\$10,213	\$8,463
Filing and qualification fees	\$3,256	\$4,051	\$3,666	\$3,627
Public utilities	\$4,229	\$5,886	\$5,487	\$4,784
Alcoholic Beverages	\$4,424	\$5,072	\$8,609	\$7,666
Occupations and businesses, n.e.c.	\$14,437	\$12,569	\$14,995	\$11,965
Bank examinations	\$3,345	\$3,452	\$5,260	\$4,209
Blue Sky fees	\$1,559	\$1,878	\$1,854	\$929
Insurance examinations	\$1,450	\$1,408	\$1,390	\$991
Animal health and veterinarian fees	\$1,293	\$1,043	\$1,117	\$881
Restaurant inspection fee	\$756	\$723	N/A	N/A
Commercial feed	\$489	\$502	\$471	\$539
Nurses	\$463	\$475	\$545	\$574
Real estate commission fees	\$496	\$462	\$408	\$409
Other	\$4,586	\$2,626	\$2,865	\$1,656
Hunting and fishing	\$5,963	\$10,148	\$10,984	\$11,696
Amusements-horse racing	N/A	\$2,105	\$10,793	\$11,093
Other	\$2,539	\$1,384	\$2,809	\$1,724
Aircraft registration	\$836	\$979	\$1,064	\$1,299
Boat registration	\$1,703	\$405	\$1,745	\$425
INDIVIDUAL INCOME (net)	\$824,551	\$864,475	\$955,232	\$1,064,816
Refunds	(\$153,255)	(\$140,049)	(\$178,351)	(\$170,311)
Gross collections	\$977,806	\$1,004,524	\$1,133,583	\$1,235,127
CORPORATION NET INCOME	\$154,412	\$138,588	\$149,602	\$158,040
DEATH AND GIFT-inheritance and estate	\$58,247	\$58,261	\$53,369	\$58,932
DOCUMENTARY AND STOCK TRANSFER	\$2,608	\$2,469	\$3,000	\$2,969

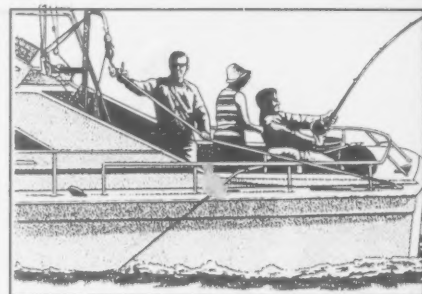
p = Preliminary

Source: State Government Tax Collections in 1986, 1987, 1988, U.S. Department of Commerce, Bureau of the Census.

Travel, vacations, conventions and outdoor life add up to two billion dollars a year in Iowa's growing tourism and travel industry. A 1989 study conducted at interstate welcome centers showed that the average travel party of 2.7 persons spent \$91.87 each day they were in the state.

Named "The Beautiful Land" by Native Americans, Iowa has something for everyone. The state is dotted with historical sites, cultural facilities and terrain that can accommodate everything from downhill skiing to bicycling. Numerous hotels range from quaint to luxurious. There is an abundance of game and campgrounds, along with some of the finest golf courses in America.

Iowa has 19,000 miles of interior fishing streams, two major natural "great lake" areas and four of the nation's largest man-made lakes. The bordering Mississippi and Missouri Rivers offer water sports, scenery and the excitement of passenger or commercial water travel.



Requests for Tourism Information*

Fiscal Year	1984	1985	1986	1987	1988	1989
# of Requests	28,248	45,121	48,265	55,579	62,258	163,102

* This represents the letters, phone calls, coupons, etc., received by the Iowa Department of Economic Development requesting tourism information.

Source: Iowa Department of Economic Development, Division of Tourism.

Impact of Travel on Iowa Counties, 1988

County	Total Travel Expenditures (000)	Travel Generated Payroll (000)	Travel Generated Employment (Jobs)	State Tax Receipts (000)	Local Tax Receipts (000)
Adair	\$4,795	\$853	128	\$273	\$37
Adams	\$737	\$144	15	\$24	\$6
Allamakee	\$2,570	\$372	44	\$97	\$16
Appanoose	\$2,615	\$442	56	\$112	\$19
Audubon	\$762	\$98	13	\$32	\$4
Benton	\$1,156	\$114	10	\$43	\$5
Black Hawk	\$85,903	\$17,068	2,068	\$4,104	\$941
Boone	\$2,594	\$407	44	\$99	\$17
Bremer	\$18,775	\$3,393	517	\$1,058	\$147
Buchanan	\$1,226	\$127	9	\$31	\$5
Buena Vista	\$6,805	\$1,173	164	\$359	\$51
Butler	\$404	\$39	3	\$13	\$2
Calhoun	\$587	\$57	4	\$17	\$2
Carroll	\$14,282	\$2,523	371	\$801	\$109
Cass	\$5,585	\$949	142	\$318	\$41
Cedar	\$4,527	\$741	105	\$234	\$32
Cerro Gordo	\$48,492	\$8,973	1,222	\$2,483	\$535
Cherokee	\$4,282	\$714	99	\$219	\$31
Chickasaw	\$2,441	\$397	55	\$125	\$17
Clarke	\$2,726	\$463	68	\$146	\$20
Clay	\$13,756	\$2,538	348	\$729	\$110
Clayton	\$7,935	\$1,333	190	\$401	\$58
Clinton	\$10,803	\$1,690	230	\$557	\$98
Crawford	\$4,031	\$711	101	\$215	\$31
Dallas	\$4,644	\$718	102	\$245	\$31
Davis	\$627	\$82	9	\$23	\$4
Decatur	\$2,647	\$446	63	\$135	\$19
Delaware	\$2,570	\$407	57	\$131	\$18
Des Moines	\$33,323	\$6,655	830	\$1,646	\$384
Dickinson	\$38,649	\$6,873	1,011	\$2,063	\$297
Dubuque	\$88,534	\$16,873	2,318	\$4,757	\$1,030
Emmet	\$1,583	\$232	26	\$60	\$10
Fayette	\$3,674	\$567	73	\$179	\$25
Floyd	\$2,800	\$470	61	\$136	\$20
Franklin	\$838	\$112	16	\$38	\$5
Fremont	\$5,679	\$1,013	155	\$330	\$44

Impact of Travel on Iowa Counties, 1988 (continued)

County	Total Travel Expenditures (000)	Travel Generated Payroll (000)	Travel Generated Employment (Jobs)	State Tax Receipts (000)	Local Tax Receipts (000)
Greene	\$1,838	\$296	34	\$76	\$13
Grundy	\$411	\$32	2	\$14	\$1
Guthrie	\$1,411	\$191	14	\$13	\$8
Hamilton	\$5,320	\$957	139	\$293	\$41
Hancock	\$481	\$53	5	\$11	\$2
Hardin	\$3,273	\$490	59	\$147	\$21
Hamison	\$3,799	\$581	80	\$200	\$25
Henry	\$5,012	\$840	115	\$258	\$36
Howard	\$490	\$57	6	\$18	\$2
Humboldt	\$1,597	\$252	31	\$74	\$11
Ida	\$665	\$101	7	\$17	\$4
Iowa	\$23,352	\$4,261	658	\$1,385	\$322
Jackson	\$3,527	\$602	79	\$168	\$26
Jasper	\$24,079	\$4,326	650	\$1,384	\$243
Jefferson	\$14,003	\$2,625	364	\$735	\$114
Johnson	\$92,022	\$16,627	2,566	\$5,459	\$1,102
Jones	\$892	\$87	9	\$33	\$4
Keokuk	\$690	\$71	5	\$19	\$3
Kossuth	\$5,027	\$827	115	\$264	\$36
Lee	\$27,188	\$4,418	671	\$1,445	\$278
Linn	\$249,716	\$57,091	5,529	\$9,435	\$3,240
Louisa	\$562	\$55	4	\$18	\$2
Lucas	\$925	\$141	18	\$35	\$6
Lyon	\$792	\$118	17	\$37	\$5
Madison	\$3,534	\$591	86	\$190	\$26
Mahaska	\$6,440	\$1,129	163	\$350	\$49
Marion	\$4,146	\$704	88	\$189	\$30
Marshall	\$18,499	\$3,255	481	\$1,041	\$141
Mills	\$810	\$92	9	\$33	\$4
Mitchell	\$786	\$105	13	\$33	\$5
Monona	\$2,780	\$429	60	\$140	\$19
Monroe	\$4,291	\$753	112	\$238	\$33
Montgomery	\$6,776	\$1,204	176	\$378	\$52
Muscatine	\$18,653	\$3,328	499	\$1,068	\$191
O'Brien	\$1,375	\$171	15	\$50	\$7
Osceola	\$252	\$32	2	\$6	\$1
Page	\$1,536	\$238	20	\$39	\$10
Palo Alto	\$1,243	\$161	19	\$46	\$7
Plymouth	\$2,713	\$400	53	\$132	\$17
Pocahontas	\$830	\$116	11	\$25	\$5
Polk	\$753,386	\$166,744	18,297	\$32,994	\$11,113
Pottawattamie	\$52,607	\$9,241	1,387	\$3,018	\$587
Poweshiek	\$11,890	\$1,990	260	\$510	\$86
Ringgold	\$894	\$111	8	\$12	\$5
Sac	\$949	\$112	8	\$20	\$5
Scott	\$119,197	\$21,442	3,206	\$6,813	\$1,462
Shelby	\$1,421	\$218	23	\$53	\$9
Sioux	\$4,495	\$735	87	\$196	\$32
Story	\$63,728	\$11,528	1,729	\$3,668	\$499
Tama	\$829	\$103	11	\$30	\$4
Taylor	\$255	\$26	1	\$6	\$1
Union	\$5,016	\$870	124	\$265	\$38
Van Buren	\$1,273	\$203	29	\$63	\$9
Wapello	\$21,868	\$3,429	506	\$1,095	\$218
Warren	\$2,780	\$365	42	\$122	\$18
Washington	\$3,210	\$514	72	\$169	\$22
Wayne	\$725	\$110	13	\$27	\$5
Webster	\$21,861	\$3,994	542	\$1,156	\$173
Winneshago	\$959	\$117	7	\$26	\$5
Winneshiek	\$12,606	\$2,409	345	\$713	\$104
Woodbury	\$90,906	\$19,787	2,069	\$3,750	\$1,210
Worth	\$285	\$31	2	\$5	\$1
Wright	\$1,247	\$172	18	\$42	\$7
STATE TOTAL	\$2,147,480	\$431,820	52,497	\$102,524	\$25,976

NOTE: Details may not add up to totals due to rounding.

Source: U.S. Travel Data Center, County Travel Economic Impact Model

Interstate Welcome Center Survey Results (May-September)

	1977	1980	1985	1988	1989
Percent of Visitors with Destination in Iowa	13%	22%	31%	37%	32%
Average Days Spent on Trip	20.9	16.5	13.0	19.4	18.6
Average Days Spent in Iowa	2.5	2.9	2.7	3.3	3.1
Average Travel Party Size	3.2	3.0	2.6	2.9	2.7
Average Party Spending Per Day	\$40.42	\$57.12	\$76.20	\$92.03	\$91.87
Estimated Spending of Center Visitors	\$5,029,460	\$8,297,970	\$17,346,968	\$31,878,068	\$28,957,590
Estimated Economic Impact of Center Visitors	\$13,176,078	\$21,219,719	\$46,054,970	\$85,980,030	\$77,527,414

Source: Iowa Department of Economic Development, Division of Tourism

Recreation Statistics, 1988

1986 Licenses Issued:

Resident Fishing Licenses	272,037
Resident Hunting Licenses	130,459
Resident Combination Licenses	77,256
Non-Resident Hunting Licenses	34,989
Non-Resident Fishing Licenses	14,018
Gun Deer Licenses	109,666
Bow and Arrow Deer Licenses	28,476
Landowner-Tenant Deer Licenses	30,261
Iowa Duck Stamps	34,378
Trout Stamps	25,918
Turkey Licenses	27,019

Acres of Public Hunting Areas	233,711
Acres of Public Waterfowl Refuges	42,000
Visitors to Public Hunting Areas	3,500,000
Surface Acres of River Boundary Waters	203,500
Farm Ponds in Southern Iowa	87,000
Acres of Natural Lakes	33,000
Acres of Man-made Lakes	23,000
Acres of Oxbow Lakes	2,000
Acres of Federal Reservoirs	30,200
Miles of Interior Fishing Streams	19,000
State Parks and Recreation Areas	83
State Park and Recreation Visitors in 1985	10,740,358
State Parks with Lakes	42
State Parks with Camping	62
Acres of State Forests	27,000
Acres of State Preserve Areas	7,700
County Conservation Board Areas	1,138
Acres of Iowa Forests	1,561,000

Wild Game Statistics:

Species	# of Hunters	Game Harvested
Pheasant	205,000	1.13 million
Rabbits	85,000	425,000
Squirrel	75,000	510,000
Quail	75,000	287,000
Fall Turkey	7,826	4,427
Spring Turkey	11,376	7,059
Deer Bow	30,020	9,897
Deer Gun	129,340	80,055

Source: Iowa Department of Natural Resources

State Park Visitation & Camping Data, 1989

Area	Visitation	Camping
A. A. Call	17,240	444
Backbone	436,252	17,047
Beeds Lake	161,862	12,746
Bellevue	176,550	3,764
Big Creek	650,392	No Camping
Black Hawk	424,950	16,954
Bobwhite	47,057	1,483
Brushy Creek	77,270	8,854
Cedar Rock	13,581	No Camping
Clear Lake	156,600	10,752
Dolliver	215,400	2,616
Elk Rock	139,182	2,584
Fort Defiance	110,750	485
Geode	374,500	13,364
George Wyth	365,487	8,333
Green Valley	94,115	16,081
Gull Point Complex	1,007,700	71,949
Honey Creek	158,615	14,462
Lacey-Keosauqua	120,200	4,478
Lake Ahquabi	230,150	18,459
Lake Anita	149,850	16,001
Lake Darling	177,500	11,095
Lake Keomah	154,214	5,409
Lake Macbride	455,482	14,476
Lake Manawa	541,234	12,582
Lake of Three Fires	50,200	7,652
Lake Wapello	112,479	7,820
Ledges	402,200	14,960
Lewis and Clark	190,220	13,364
Maquoketa Caves	140,880	3,555
Margo Frankel	59,768	No Camping
McIntosh Woods	126,900	6,086
Mines of Spain/E.B. Lyons	118,150	No Camping
Nine Eagles	83,491	5,013
Palisades-Kepler	213,000	1,752
Pikes Peak	139,279	12,590
Pilot Knob	76,350	3,693
Pine Lake	481,400	14,861
Pleasant Creek	264,200	4,364
Plum Grove	1,419	No Camping
Prairie Rose	94,400	5,741
Red Haw	261,200	6,657
Rock Creek	546,000	18,898
Shimek Forest Camping	-----	4,372
Springbrook	150,750	12,038
Stephens Forest Camping	-----	3,727
Stone Park	306,572	1,585
Union Grove	103,630	706
Viking Lake	223,400	17,889
Volga River	113,300	3,067
Walnut Woods	55,900	4,080
Wapsipinicon	434,200	1,465
Waubonsie	99,121	5,661
Wild Cat Den & Fairport	232,500	5,563
Wilson Island	65,600	15,581
Yellow River Camping	-----	12,528
STATE TOTAL	12,002,053	499,686

Source: Iowa Department of Natural Resources

TRANSPORTATION

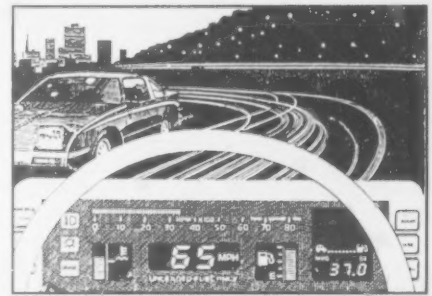
Iowa is an ideal central distribution point. The nation's two transcontinental interstate highways intersect here and Iowa is the only state bordered by two navigable rivers.

Less than a day away are Chicago, Twin Cities, St. Louis, Kansas City, Milwaukee, Omaha, and Wichita - plus many wealthy markets in between.

A tractor trailer can reach the farthest point in America in only three days; a train in four.

The state is served by all major truck lines and "double bottoms" are legal. You can reach the sea by both water and road.

Add Iowa's transportation advantages to our "Open Port Warehousing" and you have the perfect combination for moving products.



Distance from Central Iowa to Urban Markets:



Iowa Transportation Summary

Railroads

Classes I, II, and III miles of road owned and/or leased, Year ended 1988 4,414

Motor Vehicle Registration, 1989

Autos-1989 3,017,555
Trucks-1989 1,844,690
Motorcycles-1989 667,883
Truck tractors-1989 139,038
Truck tractors-1989 7,331

Airports-Publicly Owned

All weather runways 113
Lighted runways 95

Iowa Highway and Road Mileage-Jan. 1, 1989

Portland concrete 13,267.88
Asphalt paved 22,069.59
Bituminous treated 2,104.47
Gravel or stone 70,118.45
Not surfaced 5,151.97

Total Highway and Road Mileage 112,712.36

Municipal 14,085.48
Rural 98,280.51
State parks and institutional roads 337.37

Source: Iowa Department of Transportation

Iowa's Transportation Industry, 1987

SIC CODE	Industry	Total Number of Establishments	Number of Employees	Annual Payroll (\$1,000)
	Trans. & other public utilities-TOTAL	3,521	46,304	1,054,918
41	Local and interurban passenger transit	112	2,394	27,771
411	Local and suburban transportation	55	654	4,688
412	Taxicabs	20	163	1,290
415	School buses	11	260	1,627
42	Trucking and warehousing	2,040	19,202	397,652
421	Trucking, local and long distance	1,910	18,064	375,928
422	Public warehousing	113	1,078	20,119
423	Trucking terminal facilities	9	59	1,486
44	Water transportation	39	332	7,076
45	Transportation by air	71	792	16,862
451	Certificated air transportation	42	616	14,852
458	Air transportation services	27	167	1,923
46	Pipe lines, except natural gas	8	159	6,024
47	Transportation services	270	1,475	21,492
472	Arrangement of Transportation	230	1,080	14,358

Source: 1987 County Business Patterns, Iowa, U.S. Department of Commerce, Bureau of the Census.

Interstate Highway System

Iowa has more miles of roads than 40 other states, though we're only twenty-fifth in area.

Aside from interstate highways, Iowa's extensive internal road system is based on a "farm-to-market" philosophy that reflects the urgency of moving vast agricultural production.

Those same roads and highways, constantly improved, now also serve the industries that have been established in all parts of Iowa.



Public Transit

Iowa has 35 public transit systems; 19 urban and 16 regional (rural). During fiscal year 1989, these public transit systems provided approximately 20,601,000 miles of service, transporting 22,045,000 passengers.

	Urban Areas			Rural Areas			Total		1989
	1987	1988	1989	1987	1988	1989	1987	1988	
Miles of service (000)	9,745	9,572	10,323	9,013	9,752	10,278	18,758	19,324	20,601
Passengers (000)	18,287	18,480	18,770	2,966	3,146	3,275	21,253	21,626	22,045

Source: Iowa Department of Transportation, Air and Transit Division

Road Construction Expenditures, (\$ Per Fiscal Year)

Fiscal Year	Primary Roads	Interstate Roads	State Parks and Institutional Roads	Farm to Market Roads	Total
1976-77	\$99,076,327	\$43,357,379	\$679,271	\$33,989,926	\$177,102,904
1977-78	121,110,115	15,007,379	805,732	45,051,623	181,974,849
1978-79	105,277,146	54,518,440	1,437,092	47,287,367	208,520,045
1979-80	75,539,584	20,875,799	1,873,688	49,772,220	148,061,291
1980-81	74,174,384	33,638,590	2,011,011	64,563,285	174,387,270
1981-82	73,162,427	51,858,856	968,299	48,909,611	190,646,008
1982-83	118,742,693	68,773,026	1,572,330	57,221,855	246,309,906
1983-84	146,252,049	48,725,646	781,824	72,355,028	283,044,587
1984-85	156,796,566	46,457,143	2,280,998	75,107,808	280,642,515
1985-86	118,269,858	38,369,654	1,520,498	68,649,969	226,809,979
1986-87	113,760,057	38,981,550	1,657,830	61,980,219	216,379,656
1987-88	127,297,888	83,273,906	1,929,253	53,099,426	265,600,473
1988-89	166,464,503	44,106,075	2,451,395	61,337,123	274,359,096

Source: Iowa Department of Transportation, Office of Contracts

Traffic Fatalities, Midwest*, 1985-1988

State	Traffic Deaths				Traffic Deaths Per 100 Million Vehicle Miles			
	1985	1986	1987	1988	1985	1986	1987	1988
IOWA	474	441	491	557	2.3	2.2	2.4	2.5
Illinois	1,534	1,596	1,654	1,837	2.2	2.2	2.2	2.3
Kansas	486	500	491	483	2.5	2.5	2.4	2.3
Minnesota	608	571	530	612	1.9	1.7	1.5	1.7
Missouri	931	1,129	1,045	1,103	2.4	2.7	2.4	2.4
Nebraska	237	290	297	261	2.0	2.3	2.3	1.9
South Dakota	130	134	134	147	2.1	2.1	2.1	2.2
Wisconsin	744	747	797	807	2.0	1.9	2.0	1.9
U.S.	43,825	46,087	46,390	47,093	2.5	2.5	2.4	2.3

* Denotes "Midwest" as defined by U.S. Department of Transportation.

Source: U.S. Department of Transportation, National Highway Traffic Safety Administration, Fatal Accident Reporting System (FARS)

Motor Vehicle Registrations by County, 1990*

County	Total # of Registrations	County	Total # of Registrations
Adair	10,619	Johnson	75,896
Adams	6,355	Jones	21,273
Allamakee	16,163	Keokuk	14,422
Appanoose	15,972	Kossuth	23,130
Audubon	8,773	Lee	41,420
Benton	25,611	Linn	173,052
Black Hawk	122,376	Louisa	14,174
Boone	28,225	Lucas	10,934
Bremer	25,735	Lyon	14,171
Buchanan	22,766	Madison	14,960
Buena Vista	22,256	Mahaska	24,606
Butler	19,604	Marion	32,035
Calhoun	14,180	Marshall	43,012
Carroll	23,355	Mills	14,917
Cass	18,709	Mitchell	13,199
Cedar	20,506	Monona	12,860
Cerro Gordo	49,918	Monroe	9,538
Cherokee	17,220	Montgomery	14,089
Chickasaw	16,350	Muscatine	44,277
Clarke	9,764	Osceola	18,321
Clay	20,071	O'Brien	9,234
Clayton	22,152	Page	18,825
Clinton	53,050	Palo Alto	12,286
Crawford	19,819	Plymouth	25,693
Dallas	33,796	Pocahontas	12,265
Davis	9,606	Polk	319,830
Decatur	9,441	Pottawattamie	93,458
Delaware	19,805	Poweshiek	21,750
Des Moines	46,907	Ringgold	6,930
Dickinson	18,333	Sac	14,944
Dubuque	79,147	Scott	146,623
Emmet	13,944	Shelby	16,083
Fayette	25,146	Sioux	30,674
Floyd	20,369	Story	61,417
Franklin	13,938	Tama	21,457
Fremont	10,313	Taylor	6,867
Greene	13,287	Union	15,141
Grundy	15,146	Van Buren	9,440
Guthrie	13,591	Wapello	38,979
Hamilton	19,990	Warren	39,170
Hancock	15,440	Washington	22,170
Hardin	22,877	Wayne	8,628
Harrison	17,524	Webster	43,037
Henry	20,556	Winnebago	15,193
Howard	11,875	Winneshek	21,578
Humbolt	13,860	Woodbury	96,166
Ida	10,546	Worth	10,366
Iowa	17,751	Wright	17,098
Jackson	22,478	Unknown	1,167
Jasper	40,702	Official Plates	44,837
Jefferson	18,046		
		Total	3,017,555

*Vehicle Information as of January 1, 1990

Source: Iowa Department of Transportation, Office of Vehicle Registration.

River Transportation

Iowa is the only state bordered by two navigable rivers. A total of 17.5 million tons of cargo moved through Iowa's 78 river terminals in 1988. It included more than 8.5 million tons of grain, 4.6 million tons of coal, and more than 0.6 million tons of petroleum.



Commercial Navigation Tonnage (in Thousands)

	1970	1975	1980	1985	1986	1987	1988	1989
Missouri River-Sioux City to Omaha								
Farm Products	93	30	59	31	5	2	4	N/A
Food and Kindred Products	113	134	148	212	194	205	105	N/A
Chemicals	118	142	86	130	147	146	166	N/A
Other	49	60	57	93	39	61	13	N/A
Total	373	366	350	466	385	414	288	N/A
Mississippi River-Rock Island District								
Grain	9,022	12,054	22,774	19,627	20,111	23,944	24,746	25,067
Coal	6,401	4,933	4,176	6,024	6,655	6,949	6,623	7,089
Petroleum	2,709	2,100	2,587	1,734	1,801	1,781	2,036	1,785
Other	4,278	5,418	4,818	6,590	7,631	7,569	8,065	8,378
Total	22,410	24,505	34,355	33,975	36,198	40,243	41,470	42,319

Note: Tonnages are preliminary and subject to revision.

Source: Iowa Department of Transportation, Office of Advance Planning

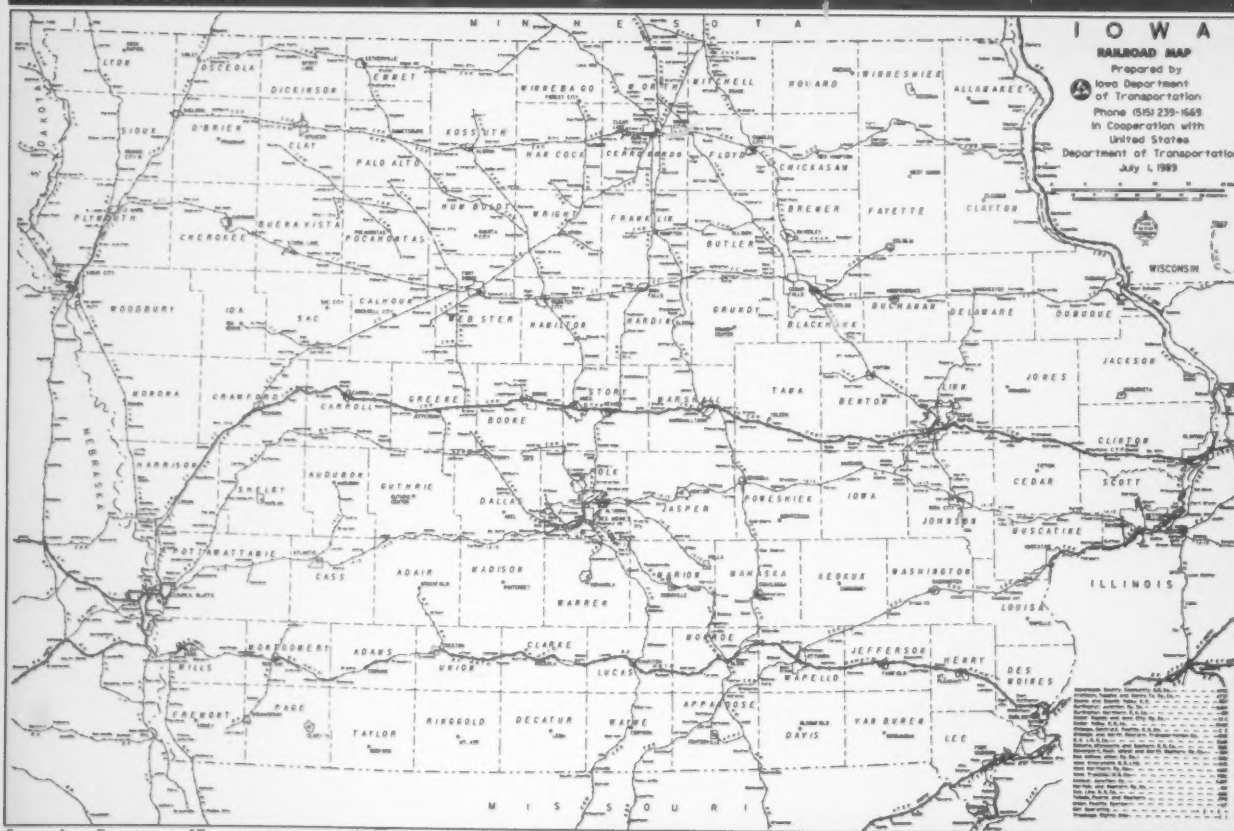
Rail Transportation

Six Class I, two Class II, and twelve Class III railroads currently own or lease 4,414 miles of road in Iowa. The six Class I railroads—Chicago & North Western; Burlington Northern; Soo Line; Norfolk and Western; Atchison, Topeka, and Santa Fe; and Union Pacific—account for 70 percent of this mileage.

The Class II carriers—Chicago Central and Pacific and Iowa Interstate—account for another 20 percent. The other Class II carrier—Dakota, Minnesota & Eastern—operates in Iowa through trackage rights.

The remaining 10 percent of mileage is accounted for by the twelve Class III carriers. Railroads serving Iowa also offer "piggyback" and container service at 10 Iowa locations.

Iowa Railroads



Source: Iowa Department of Transportation

Class I, II, and III Railroads*, Iowa

	1970	1975	1980	1985	1986	1987	1988**
Miles of Road Operated Within the State	8,464	7,951	5,292	4,201	4,598	4,560	4,414
Tons of Revenue Freight Carried Within the State	93,916,708	112,680,340	137,294,000	121,092,920	139,562,000	150,976,000	178,743,000

* The Federal Railroad Administration classifies railroads into three classes according to operating revenue: Class I—greater than \$92.6 million; Class II—greater than or equal to \$18.4 million; Class III—less than \$18.4 million.

** Mileage figure now reported by owned or leased route mileage.

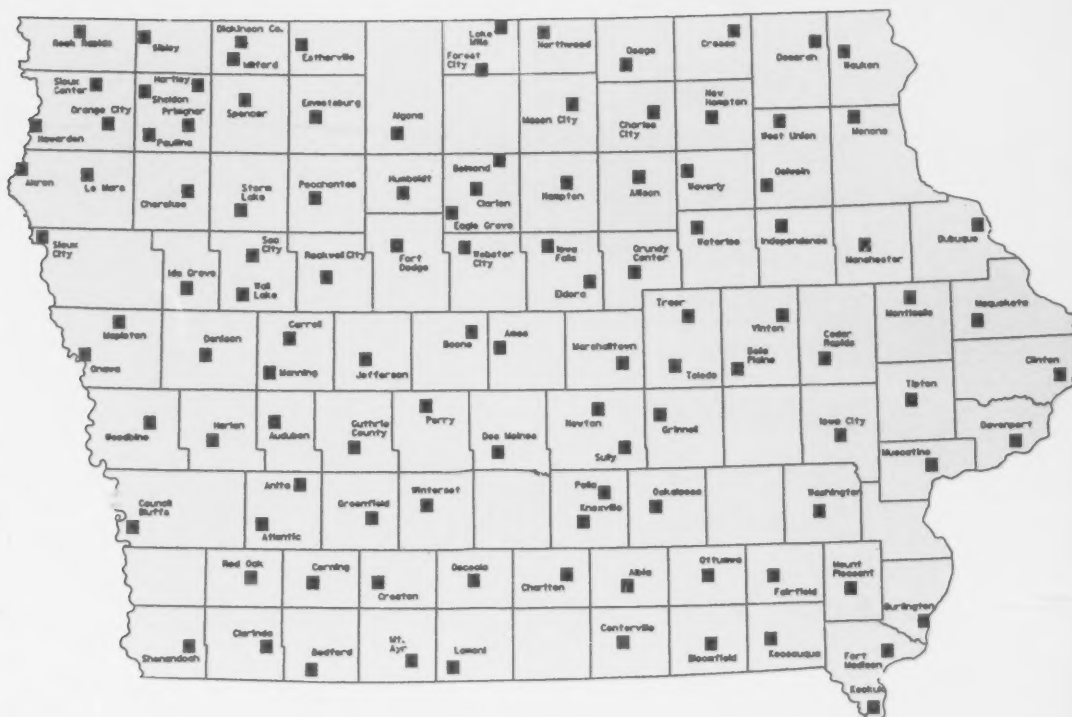
Source: Iowa Department of Transportation, Office of Advance Planning.

Air Transportation

Iowa has more than 350 airports, of which 142 are open to the public. Of these, 113 are publicly owned and are included in the State Aviation System Plan. Paved primary runways are available at 95 system airports, and 107 are lighted.

The state is served by six major airlines, America West, American, Midway Northwest, TWA, and United. All 11 commercial service airports are also served by commuter airlines.

Iowa Publicly-Owned Airports



Source: Iowa Department of Transportation

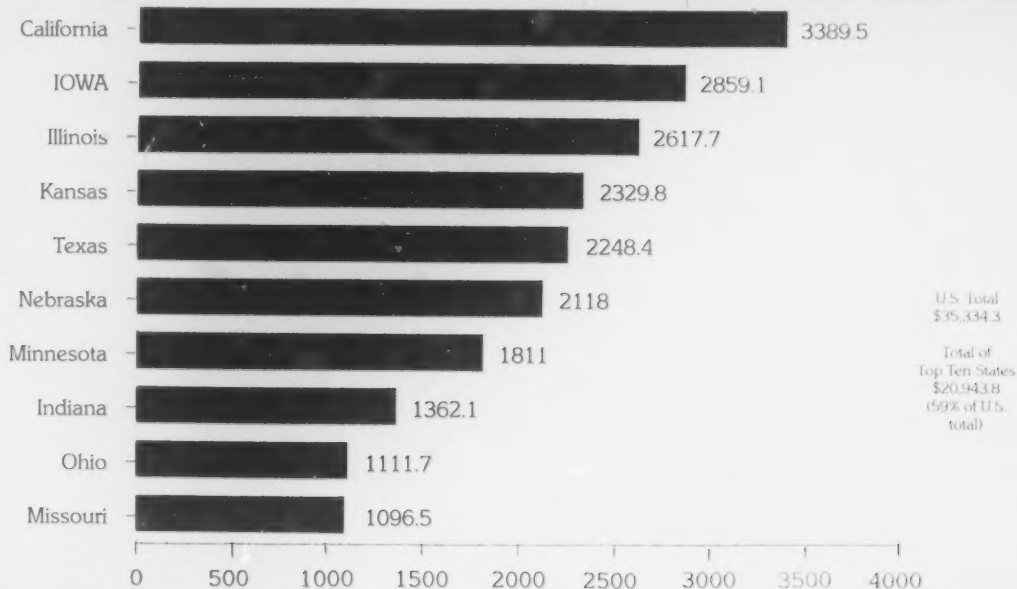
Registered Aircraft

	1970	1975	1980	1985	1986	1987	1988	1989
Number of Registered Aircraft in Iowa	2,565	3,084	3,492	2,962	2,924	2,442	2,470	2,500
Source: Iowa Department of Transportation, Office of Advance Planning.								

EXPORTS



Top Ten States in Agricultural Exports (Millions of Dollars)



Source: FATUS, March/April, 1989; U.S.D.A.

Five Leading States in Agricultural Exports by Commodity Group, FY 88

(Millions of Dollars)

Selected Commodities	1	2	RANK 3	4	5	United States
Total	Calif. 3389.5	IOWA 2859.1	Ill. 2617.7	Kan. 2329.8	Texas 2248.4	35334.3
Soybeans and Products	IOWA 1247.7	Ill. 1172.7	Minn. 658.4	Ind. 617.2	Mo. 561.2	6915.5
Feed Grains & Products	IOWA 1069.5	Ill. 993.4	Nebr. 760.6	Minn. 547.0	Ind. 517.0	6228.5
Live Animals and Meat	Kan. 293.6	Texas 286.1	Nebr. 279.1	Ky. 217.0	IOWA 185.0	2248.5
Hides and Skins	Kan. 305.5	Texas 285.4	Nebr. 278.5	IOWA 107.5	Col. 102.9	1837.5
Feeds and Fodders	IOWA 89.0	Minn. 76.2	Nebr. 73.6	Ill. 72.5	Fla. 64.9	872.9
Animal Fats	Kan. 97.0	Texas 90.6	Nebr. 88.4	IOWA 34.2	Col. 32.7	544.6

Source: FATUS, March/April, 1989; U.S.D.A.

Value of Agricultural Exports, Iowa/U.S. (Millions of Dollars)

Commodity	Iowa			United States			Iowa's % of U.S. Share		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
Wheat and products	\$7.5	\$2.3	\$2.7	\$3,546.8	\$3,115.6	\$4,673.8	0.21%	0.07%	0.06%
Feed grains and products	\$887.8	\$845.9	\$1,069.5	\$4,707.2	\$4,662.3	\$6,228.5	18.86%	18.14%	17.17%
Soybeans and products	\$823.3	\$1,039.8	\$1,247.7	\$5,578.5	\$5,752.9	\$6,915.5	14.76%	18.07%	18.04%
Vegetables and preps	\$1.7	\$2.0	\$2.7	\$998.2	\$1,175.8	\$1,282.4	0.17%	0.17%	0.21%
Live animals & meat-excl poultry	\$92.4	\$103.7	\$185.0	\$1,356.7	\$1,630.2	\$2,248.6	6.81%	6.36%	8.22%
Hides and skins	\$74.8	\$81.5	\$107.8	\$1,440.4	\$1,665.6	\$1,837.5	5.19%	4.89%	5.87%
Poultry and products	\$4.3	\$4.6	\$6.0	\$455.3	\$594.3	\$647.4	0.94%	0.77%	0.92%
Fats, oils, and greases	\$27.2	\$22.8	\$34.2	\$476.5	\$416.8	\$544.6	5.71%	5.47%	6.28%
Dairy products	\$13.7	\$15.4	\$17.6	\$431.0	\$490.6	\$535.5	3.17%	3.14%	3.29%
Feed and Fodders	\$56.0	\$68.3	\$89.0	\$557.0	\$671.9	\$872.9	10.05%	10.17%	10.20%
Other	\$65.7	\$78.0	\$96.9	\$6,759.4	\$7,700.1	\$9,547.5	0.97%	1.01%	1.01%
TOTAL	\$2,054.4	\$2,264.3	\$2,859.1	\$26,307.0	\$27,876.1	\$35,334.2	7.8%	8.1%	8.1%

1. Other for Iowa includes seeds and miscellaneous animal products. For U.S. other includes rice, sunflowerseed and oil, peanuts and products, cotton and lint, cottonseed and products, tobacco unmd., fruits and preps, tree nuts, seeds, and miscellaneous animal products.

Source: FATUS, March/April, 1989; U.S.D.A.

Iowa's Top 5 Agricultural Export Countries by Product, 1988

(Thousands of Dollars)

Product	1	2	Rank 3	4	5
Animal Fats	Mexico 6,358.15	Egypt 3,524.03	S. Korea 2,206.89	Netherlands 2,044.35	Spain 1,665.53
Coarse Grains*	Japan 315,777.72	USSR 167,768.80	Mexico 90,032.37	Taiwan 80,740.58	S. Korea 73,874.69
Feed and Fodder**	Netherlands 58,779.03	Japan 31,751.68	W. Germany 9,439.49	Canada 8,931.32	Spain 5,712.61
Meat excl. Poultry	Japan 100,761.11	Mexico 14,560.41	Canada 10,700.10	Netherlands 2,373.00	S. Korea 2,322.73
Oilseeds***	Japan 191,594.34	Netherlands 158,625.54	Taiwan 89,362.62	Mexico 72,489.06	Spain 55,752.48
Protein Meal	USSR 44,326.80	Canada 32,745.96	Netherlands 23,820.48	Mexico 19,388.52	Iraq 13,338.00

*Includes barley, corn, oats, sorghum grain, and wheat.

**Includes corn gluten meal, alfalfa meal, formula feeds, citrus pulp, pellets and meat.

***Includes sunflower, soy, canola, rape, peanut, and cotton seeds.

Source: Foreign Agriculture Service, U.S.D.A.

Exports* from Iowa by Country, 1988

Country	Exports	Country	Exports
Canada	\$747,640,942	Israel	\$12,664,381
Japan	\$375,209,781	Iraq	\$10,802,037
U.K.	\$107,020,807	Indonesia	\$10,796,636
Mexico	\$93,773,100	Argentina	\$9,552,876
France	\$85,548,404	Greece	\$9,347,294
W. Germany	\$75,188,373	Portugal	\$8,236,340
Netherlands	\$75,173,292	Brazil	\$7,838,075
Australia	\$63,031,417	Ireland	\$7,395,460
Italy	\$47,960,812	Chile	\$6,247,633
Belgium	\$40,440,387	Columbia	\$5,526,016
Hong Kong	\$32,709,580	Costa Rica	\$5,071,178
Taiwan	\$32,603,046	All Others	\$102,754,899
Spain	\$28,719,814		
South Korea	\$27,938,930		
Singapore	\$26,285,834		
China	\$24,871,781		
Venezuela	\$23,453,476		
South Africa	\$16,606,019		
Turkey	\$15,447,547		
Saudi Arabia	\$15,364,675		
Sweden	\$13,503,265		
		TOTAL	\$2,164,724,107

* Exports are figured by state of origin of movement.

Does not include undocumented exports to Canada or grain shipments of unknown origin to Canada for re-export.

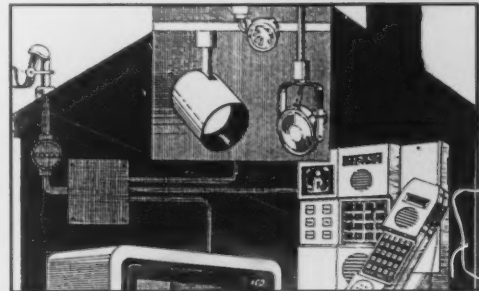
Source: Massachusetts Institute of Social and Economic Research (MISER), University of Massachusetts.

Export Shipments from Iowa by Industry, 1987-1988

S.I.C. Group	Product Category	Total Value of Shipments*	
		1987	1988
1	Agricultural production-crops	\$57,572,085	\$54,740,415
2	Ag. prod.-livestock & animal specialties	\$14,373,004	\$29,549,612
8	Forestry	\$34,211	\$5,356
9	Fishing, hunting & trapping	\$1,357,004	\$1,515,702
10	Metal mining	\$4,130,251	\$8,726,400
12	Coal mining	\$950,923	\$1,546,531
14	Mining and quarrying of nonmetallic minerals, except fuels	\$39,429	\$166,822
20	Food & kindred products	\$344,957,175	\$470,214,251
22	Textile mill products	\$2,565,693	\$2,521,575
23	Apparel & other finished products made from fabrics & similar materials	\$11,645,173	\$18,417,454
24	Lumber & wood products, excl. furniture	\$17,286,309	\$14,866,327
25	Furniture & fixtures	\$3,838,625	\$5,395,755
26	Paper & allied products	\$9,497,359	\$14,939,677
27	Printing, publishing & allied industries	\$34,790,055	\$30,590,319
28	Chemicals & allied products	\$119,002,114	\$155,418,202
29	Petroleum refining & related industries	\$640,717	\$163,287
30	Rubber & misc. plastics products	\$56,160,815	\$81,787,565
31	Leather & leather products	\$9,576,508	\$6,875,586
32	Stone, clay, glass & concrete products	\$2,136,781	\$1,979,586
33	Primary metal industries	\$110,996,295	\$126,399,691
34	Fabricated metal products excluding machinery & transportation equipment	\$43,646,562	\$55,160,968
35	Industrial & commercial machinery and computer equipment	\$596,974,419	\$655,428,741
36	Electronic & other electrical equip. & components, except computer equip.	\$215,769,841	\$176,910,204
37	Transportation equipment	\$88,729,788	\$96,702,430
38	Measuring, analyzing, & controlling instruments; photographic, medical & optical goods; watches & clocks	\$43,007,595	\$93,238,451
39	Misc. manufacturing industries	\$45,073,139	\$51,418,806
91-99	Scrap & waste, Second hand goods, nonclassifiable establishments	\$4,968,179	\$10,044,394
TOTAL		\$1,839,720,049	\$2,164,724,107

* Exports are determined by state of origin of movement. Figures do not include undocumented exports to Canada or grain shipments of unknown origin to Canada for re-export.

Source: Massachusetts Institute for Social and Economic Research (MISER), University of Massachusetts



Typical Monthly Electric Bills for Residential Service by Community*, 1988

Iowa Community* (2,500 in population or larger)	Consumption Levels and Types of Service				
	Lighting, Appliances, Refrigeration, Cooking				
	250 kWh	500 kWh	750 kWh	1,000 kWh	Cooling/ Heating 2,500 kWh
Adel	\$22.25	\$40.50	\$58.75	\$77.00	\$137.00
Adel	\$23.85	\$43.70	\$63.55	\$83.40	\$202.50
Albia	\$22.18	\$39.34	\$56.49	\$72.65	\$168.10
Albia	\$22.18	\$39.34	\$56.49	\$73.65	\$176.60
Algona	\$18.80	\$32.35	\$42.03	\$53.70	\$126.75
Altoona	\$22.25	\$40.50	\$58.75	\$77.00	\$137.00
Altoona	\$23.85	\$43.70	\$63.55	\$83.40	\$202.50
Ames	\$20.38	\$36.15	\$50.28	\$64.40	\$144.65
Ames	\$22.62	\$41.35	\$59.47	\$77.60	\$177.35
Anamosa	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Anamosa	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
Ankeny	\$22.25	\$40.50	\$58.75	\$77.00	\$137.00
Ankeny	\$23.85	\$43.70	\$63.55	\$83.40	\$202.50
Atlantic	\$15.15	\$27.05	\$33.50	\$44.50	\$80.25
Atlantic	\$15.15	\$27.05	\$33.50	\$44.50	\$110.25
Audubon	\$25.74	\$45.41	\$57.21	\$76.62	\$149.16
Belle Plaine	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Belle Plaine	\$36.73	\$62.53	\$85.36	\$108.81	\$197.12
Belmond	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Belmond	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
Bettendorf	\$21.93	\$44.50	\$60.78	\$71.69	\$129.14
Bettendorf	\$24.20	\$49.10	\$71.15	\$93.20	\$225.50
Bloomfield	\$18.68	\$32.43	\$46.08	\$58.76	\$130.21
Boone	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Boone	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
Burlington	\$17.36	\$30.50	\$38.42	\$51.56	\$124.37
Burlington	\$17.45	\$31.04	\$38.78	\$52.37	\$130.85
Camanche	\$21.93	\$44.50	\$60.78	\$71.69	\$129.14
Camanche	\$24.20	\$49.10	\$71.15	\$93.20	\$225.20
Carlisle	\$14.60	\$27.20	\$39.00	\$46.40	\$94.40
Carlisle	\$14.60	\$27.20	\$39.00	\$50.00	\$116.00
Carroll	\$25.74	\$45.41	\$57.21	\$76.62	\$149.16
Carter Lake	\$18.14	\$30.90	\$43.64	\$56.40	\$112.70
Carter Lake	\$20.07	\$35.50	\$50.92	\$66.35	\$154.10
Cedar Falls	\$15.43	\$26.68	\$37.93	\$46.78	\$95.82
Cedar Falls	\$15.43	\$26.68	\$37.93	\$49.18	\$116.68
Cedar Rapids	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Cedar Rapids	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
Centerville	\$17.36	\$30.50	\$38.42	\$51.56	\$124.37
Centerville	\$17.45	\$31.04	\$38.78	\$52.37	\$130.85
Chariton	\$17.36	\$30.50	\$38.42	\$51.56	\$124.37
Chariton	\$17.45	\$31.04	\$38.78	\$52.37	\$130.85
Charles City	\$25.74	\$45.41	\$57.21	\$76.62	\$149.16
Cherokee	\$25.74	\$45.41	\$57.21	\$76.62	\$149.16
Clarinda	\$22.25	\$40.50	\$58.75	\$77.00	\$137.00
Clarinda	\$23.85	\$43.70	\$63.55	\$83.40	\$202.50
Clarion	\$25.74	\$45.41	\$57.21	\$76.62	\$149.16
Clear Lake	\$20.05	\$36.79	\$48.23	\$64.21	\$129.14
Clinton	\$18.27	\$33.22	\$43.76	\$58.31	\$122.54
Clive	\$22.25	\$40.50	\$58.75	\$77.00	\$137.00
Clive	\$23.85	\$43.70	\$63.55	\$83.40	\$202.50

Typical Monthly Electric Bills for Residential Service, 1988 (cont'd)

Iowa Community* (2,500 in population or larger)	Consumption Levels and Types of Service				
	Lighting, Appliances, Refrigeration, Cooking				
	250 kWh	500 kWh	750 kWh	Water Heating 1,000 kWh	Cooling/ Heating 2,500 kWh
Coralville.....	\$21.93	\$44.50	\$60.78	\$71.69	\$129.14
Coralville.....	\$24.20	\$49.10	\$71.15	\$93.20	\$225.50
Council Bluffs.....	\$22.25	\$40.50	\$58.75	\$77.00	\$137.00
Council Bluffs.....	\$23.85	\$43.70	\$63.55	\$83.40	\$202.50
Cresco.....	\$20.05	\$36.79	\$48.23	\$64.21	\$129.14
Creston.....	\$17.36	\$30.50	\$38.42	\$51.56	\$124.37
Creston.....	\$17.45	\$31.04	\$38.78	\$52.37	\$130.85
Davenport.....	\$21.93	\$44.50	\$60.78	\$71.69	\$129.14
Davenport.....	\$24.20	\$49.10	\$71.15	\$93.20	\$225.50
De Witt.....	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
De Witt.....	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
Decorah.....	\$20.05	\$36.79	\$48.23	\$64.21	\$129.14
Denison.....	\$15.00	\$25.00	\$33.50	\$43.00	\$85.00
Des Moines.....	\$22.47	\$40.91	\$59.34	\$77.77	\$138.37
Des Moines.....	\$24.09	\$44.14	\$64.19	\$84.23	\$204.53
Dubuque.....	\$18.27	\$33.22	\$43.76	\$58.31	\$122.54
Dyersville.....	\$20.05	\$36.79	\$48.23	\$64.21	\$129.14
Eagle Grove.....	\$25.74	\$45.41	\$57.21	\$76.62	\$149.16
Eldora.....	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Eldora.....	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
Eldridge.....	\$20.04	\$36.96	\$53.89	\$70.82	\$172.38
Eldridge.....	\$20.13	\$37.93	\$55.73	\$73.54	\$180.35
Emmetsburg.....	\$25.74	\$45.41	\$57.21	\$76.62	\$149.16
Estherville.....	\$19.28	\$34.22	\$46.00	\$57.78	\$128.48
Evansdale.....	\$25.74	\$45.41	\$57.21	\$76.62	\$149.16
Fairfield.....	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Fairfield.....	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
Forest City.....	\$17.75	\$31.00	\$43.50	\$55.50	\$127.50
Fort Dodge.....	\$21.93	\$44.50	\$60.78	\$71.69	\$129.14
Fort Dodge.....	\$24.20	\$49.10	\$71.15	\$93.20	\$225.50
Fort Madison.....	\$25.64	\$42.28	\$58.92	\$68.56	\$126.40
Fort Madison.....	\$31.64	\$54.28	\$76.92	\$99.56	\$235.40
Garnier.....	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Garnier.....	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
Glenwood.....	\$22.25	\$40.50	\$58.75	\$77.00	\$137.00
Glenwood.....	\$23.85	\$43.70	\$63.55	\$83.40	\$202.50
Grinnell.....	\$17.36	\$30.50	\$38.42	\$51.56	\$124.37
Grinnell.....	\$17.45	\$31.04	\$38.78	\$52.37	\$130.85
Grundy Center.....	\$20.00	\$37.00	\$51.50	\$66.00	\$139.50
Hampton.....	\$25.74	\$45.41	\$57.21	\$76.62	\$149.16
Harlan.....	\$17.57	\$33.30	\$49.02	\$57.63	\$109.23
Harlan.....	\$17.57	\$33.30	\$49.02	\$63.33	\$149.13
Hawarden.....	\$18.92	\$25.34	\$31.75	\$38.17	\$76.68
Hawatha.....	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Hawatha.....	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
Humbolt.....	\$25.74	\$45.41	\$57.21	\$76.62	\$149.16
Independence.....	\$19.70	\$34.90	\$50.10	\$65.30	\$151.50
Indianola.....	\$15.92	\$29.14	\$41.61	\$54.10	\$120.18
Iowa City.....	\$21.93	\$44.50	\$60.78	\$71.69	\$129.14
Iowa City.....	\$24.20	\$49.10	\$71.15	\$93.20	\$225.50
Iowa Falls.....	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Iowa Falls.....	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
Jefferson.....	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Jefferson.....	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
Johnston.....	\$22.25	\$40.50	\$58.75	\$77.00	\$137.00
Johnston.....	\$23.85	\$43.70	\$63.55	\$83.40	\$202.50
Keokuk.....	\$25.64	\$42.28	\$58.92	\$68.56	\$126.40
Keokuk.....	\$31.64	\$54.28	\$76.92	\$99.56	\$235.40
Knoxville.....	\$22.25	\$40.50	\$58.75	\$77.00	\$137.00
Knoxville.....	\$23.85	\$43.70	\$63.55	\$83.40	\$202.50
Lamoni.....	\$22.03	\$39.55	\$55.58	\$71.60	\$156.50
Le Claire.....	\$21.93	\$44.50	\$60.78	\$71.69	\$129.14
Le Claire.....	\$24.20	\$49.10	\$71.15	\$93.20	\$225.50
Le Mars.....	\$25.74	\$45.41	\$57.21	\$76.62	\$149.16
Manchester.....	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Manchester.....	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
Maquoketa.....	\$21.28	\$37.15	\$50.93	\$64.20	\$128.25
Maquoketa.....	\$21.53	\$40.45	\$58.43	\$76.20	\$180.25
Marion.....	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Marion.....	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
Marshalltown.....	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Marshalltown.....	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12

Typical Monthly Electric Bills for Residential Service, 1988 (cont'd)

Iowa Community* (2,500 in population or larger)	Consumption Levels and Types of Service				
	Lighting, Appliances, Refrigeration, Cooking				
	250 kWh	500 kWh	750 kWh	1,000 kWh	Cooling/ Heating 2,500 kWh
Mason City	\$18.27	\$33.22	\$45.38	\$59.93	\$124.86
Missouri Valley	\$22.25	\$40.50	\$58.75	\$77.00	\$137.00
Missouri Valley	\$23.85	\$43.70	\$63.55	\$83.40	\$202.50
Monticello	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Monticello	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
Mount Pleasant	\$24.57	\$39.12	\$53.67	\$66.76	\$143.11
Mount Vernon	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Mount Vernon	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
Muscatine	\$15.09	\$26.55	\$36.03	\$49.66	\$119.50
Nevada	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Nevada	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
New Hampton	\$17.64	\$32.49	\$46.66	\$60.80	\$141.49
Newton	\$17.36	\$30.50	\$38.42	\$51.56	\$124.37
Newton	\$17.45	\$31.04	\$38.78	\$52.37	\$130.85
Norwalk	\$22.25	\$40.50	\$58.75	\$77.00	\$137.00
Norwalk	\$23.85	\$43.70	\$63.55	\$83.40	\$202.50
Oelwein	\$20.05	\$36.79	\$48.23	\$64.21	\$129.14
Onawa	\$17.25	\$34.50	\$45.25	\$56.00	\$107.00
Onawa	\$17.25	\$34.50	\$45.25	\$56.00	\$113.00
Orange City	\$16.00	\$29.60	\$41.85	\$54.10	\$125.00
Osage	\$13.22	\$24.47	\$35.48	\$45.50	\$99.28
Osceola	\$17.36	\$30.50	\$38.42	\$51.56	\$124.37
Osceola	\$17.45	\$31.04	\$38.78	\$52.37	\$130.85
Oskaloosa	\$22.29	\$40.58	\$58.87	\$77.15	\$137.27
Oskaloosa	\$23.90	\$43.79	\$63.68	\$83.57	\$202.91
Ottumwa	\$17.36	\$30.50	\$38.42	\$51.56	\$124.37
Ottumwa	\$17.45	\$31.04	\$38.78	\$52.37	\$130.85
Pella	\$17.95	\$33.49	\$48.44	\$63.39	\$121.96
Perry	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Perry	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
Pleasant Hill	\$22.25	\$40.50	\$58.75	\$77.00	\$137.00
Pleasant Hill	\$23.85	\$43.70	\$63.55	\$83.40	\$202.50
Red Oak	\$22.25	\$40.50	\$58.75	\$77.00	\$137.00
Red Oak	\$23.85	\$43.70	\$63.55	\$83.40	\$202.50
Rock Rapids	\$13.25	\$21.50	\$29.75	\$38.00	\$87.50
Rock Valley	\$25.74	\$45.41	\$57.21	\$76.62	\$149.16
Sac City	\$25.74	\$45.41	\$57.21	\$76.62	\$149.16
Sheldon	\$25.74	\$45.41	\$57.21	\$76.62	\$149.16
Shenandoah	\$22.25	\$40.50	\$58.75	\$77.00	\$137.00
Shenandoah	\$23.85	\$43.70	\$63.55	\$83.40	\$202.50
Sibley	\$15.40	\$27.65	\$39.85	\$51.85	\$120.10
Sioux Center	\$14.74	\$25.64	\$36.54	\$47.44	\$112.84
Sioux City	\$26.25	\$46.32	\$58.36	\$78.15	\$152.15
Spencer	\$14.00	\$24.00	\$34.00	\$44.00	\$89.00
Spirit Lake	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Spirit Lake	\$36.73	\$62.53	\$85.63	\$108.18	\$197.12
Storm Lake	\$25.74	\$45.41	\$57.21	\$76.62	\$149.16
Story City	\$16.18	\$28.85	\$38.78	\$48.70	\$108.25
Story City	\$16.18	\$28.85	\$40.03	\$51.20	\$118.25
Tama	\$27.78	\$45.56	\$60.99	\$76.41	\$135.53
Tama	\$36.73	\$62.53	\$85.36	\$108.18	\$197.12
Tipton	\$21.97	\$40.89	\$59.36	\$77.84	\$183.44
Tipton	\$21.97	\$41.19	\$60.42	\$79.64	\$191.09
Urbandale	\$22.25	\$40.50	\$58.75	\$77.00	\$137.00
Urbandale	\$23.85	\$43.70	\$63.55	\$83.40	\$202.50
Vinton	\$16.06	\$28.12	\$39.82	\$51.51	\$117.22
Washington	\$17.36	\$30.50	\$38.42	\$51.56	\$124.37
Washington	\$17.45	\$31.04	\$38.78	\$52.37	\$130.85
Waterloo	\$25.74	\$45.41	\$57.21	\$76.62	\$149.16
Waukon	\$20.05	\$36.79	\$48.23	\$64.21	\$129.14
Waverly	\$20.38	\$38.01	\$54.76	\$71.51	\$151.28
Waverly	\$20.38	\$38.01	\$54.76	\$71.51	\$154.78
Webster City	\$21.83	\$38.96	\$53.55	\$68.13	\$147.37
West Burlington	\$17.36	\$30.50	\$38.42	\$51.56	\$124.37
West Burlington	\$17.45	\$31.04	\$38.78	\$52.37	\$130.85
West Des Moines	\$22.25	\$40.50	\$58.75	\$77.00	\$137.00
West Des Moines	\$23.85	\$43.70	\$63.55	\$83.40	\$202.50
West Liberty	\$18.82	\$33.65	\$45.73	\$57.80	\$130.25
West Liberty	\$24.83	\$45.65	\$57.98	\$70.30	\$144.25
West Union	\$20.05	\$36.79	\$48.23	\$64.21	\$129.14
Wilton	\$20.96	\$38.92	\$53.37	\$67.83	\$154.58
Windsor Heights	\$22.25	\$40.50	\$58.75	\$77.00	\$137.00
Windsor Heights	\$23.85	\$43.70	\$63.55	\$83.40	\$202.50
Winterset	\$18.00	\$33.00	\$48.00	\$63.00	\$153.00

* When a community is listed twice, the top rate is based on winter period (the 2500 kWh level includes space heating) and the bottom rate is based on summer period (the 2500 kWh includes air conditioning).

Source: U.S. Department of Energy, Energy Information Administration.

Gas Utility Industry Average Prices, 1988

By State and Class of Service, (\$/MMBtu)

State	Class of Service					
	Total	Residential	Commercial	Industrial	Electric Generation	Other
U.S. Average	\$4.31	\$5.29	\$4.63	\$3.04	\$2.54	\$3.36
Alabama	4.52	6.37	4.92	2.86	2.50	4.96
Alaska	2.76	3.50	2.94	1.50	2.13	•
Arizona	5.26	6.76	4.91	3.52	1.79	3.68
Arkansas	4.17	4.79	4.36	3.42	3.60	3.01
California	4.10	5.27	5.17	3.30	2.85	3.79
Colorado	4.07	4.35	3.81	3.73	2.35	3.32
Connecticut	6.12	7.63	5.45	3.92	**	7.07
Delaware	4.46	5.83	4.79	3.36	2.22	3.00
District of Columbia	5.92	6.90	5.26	•	•	•
Florida	2.92	6.78	4.62	2.09	2.09	3.61
Georgia	5.16	6.21	5.34	3.46	2.79	4.76
Hawaii	11.67	15.50	9.87	12.20	•	•
Idaho	4.77	5.43	4.55	3.73	•	•
Illinois	4.13	4.36	4.00	3.27	3.37	4.42
Indiana	4.64	5.04	4.51	3.68	3.71	3.95
IOWA	4.04	4.73	3.98	2.90	2.66	4.62
Kansas	3.63	4.00	3.62	2.79	2.33	2.80
Kentucky	4.16	4.42	4.19	3.41	•	3.69
Louisiana	3.53	5.48	5.12	2.48	1.76	2.33
Maine	5.80	7.25	6.25	4.51	•	•
Maryland	5.25	5.80	4.95	4.24	2.42	3.03
Massachusetts	5.42	6.58	5.41	3.68	2.43	4.48
Michigan	4.92	5.04	4.73	4.40	4.03	4.40
Minnesota	4.06	4.65	4.21	2.81	2.47	3.78
Mississippi	4.19	5.78	5.10	2.67	2.75	4.48
Missouri	4.37	4.72	4.12	3.48	3.09	3.18
Montana	3.81	4.01	4.00	2.98	4.44	3.88
Nebraska	3.90	4.43	3.85	2.97	2.60	2.61
Nevada	4.96	3.89	4.71	3.56	2.95	4.87
New Hampshire	5.41	6.00	3.43	3.66	2.40	5.90
New Jersey	5.23	6.05	5.04	3.72	2.50	4.55
New Mexico	4.37	4.92	4.02	3.25	3.22	3.41
New York	5.83	6.41	5.40	4.13	2.77	4.61
North Carolina	4.57	6.02	4.98	3.49	3.37	3.40
North Dakota	4.47	4.86	4.21	3.49	**	**
Ohio	4.85	5.07	4.67	3.99	3.26	3.94
Oklahoma	3.34	4.36	4.00	1.75	2.77	2.69
Oregon	5.44	6.57	5.37	3.84	•	•
Pennsylvania	5.02	5.61	5.08	3.38	2.74	4.73
Rhode Island	5.82	6.47	6.25	4.39	2.18	2.94
South Carolina	4.43	6.47	5.34	3.34	3.37	4.71
South Dakota	4.20	4.76	4.06	3.02	4.21	•
Tennessee	3.83	4.49	4.22	3.13	2.36	3.43
Texas	2.89	5.18	4.27	2.07	2.38	2.64
Utah	4.16	4.74	3.81	2.89	2.82	**
Vermont	4.61	5.83	4.71	2.99	•	6.67
Virginia	4.74	5.73	4.56	3.28	•	4.54
Washington	4.02	5.33	4.41	2.86	**	3.88
West Virginia	4.62	5.03	4.62	2.49	2.25	5.22
Wisconsin	5.16	5.85	4.52	4.26	3.42	2.90
Wyoming	4.11	4.47	4.05	3.16	2.65	**

* No Sales reported.

** Less than 0.05 Trillion Btu in sales.

Source: 1988 Gas Facts, American Gas Association

Ranking of Gas Utility Prices by State, September 1989

State	INDUSTRIAL		COMMERCIAL	
	Price per Mcf	Rank	Price per Mcf	Rank
Alabama	\$2.84	38	\$5.20	16
Alaska	\$0.98	49	\$2.31	51
Arizona	\$2.91	37	\$4.85	25
Arkansas	\$3.15	29	\$4.93	22
California	\$3.27	23	\$4.39	38
Colorado	\$3.49	18	\$4.26	42
Connecticut	\$3.90	10	\$5.36	14
District of Columbia	N/A	N/A	\$4.98	20
Delaware	\$3.41	20	\$5.45	13
Florida	\$3.06	31	\$4.63	31
Georgia	\$3.51	17	\$5.46	12
Hawaii	N/A	N/A	\$11.65	1
Idaho	\$4.12	6	\$4.46	34
Illinois	\$3.44	19	\$4.91	23
Indiana	\$3.66	16	\$4.72	26
IOWA	\$2.38	44	\$3.90	47
Kansas	\$2.97	34	\$2.70	50
Kentucky	\$3.79	13	\$4.66	30
Louisiana	\$1.87	47	\$5.65	9
Maine	\$4.23	5	\$6.67	3
Maryland	\$4.67	3	\$5.64	11
Massachusetts	\$3.20	26	\$5.17	17
Michigan	\$4.78	2	\$5.77	7
Minnesota	\$2.70	42	\$3.85	48
Mississippi	\$2.28	45	\$4.44	36
Missouri	\$4.04	7	\$4.53	32
Montana	\$2.53	43	\$4.35	39
Nebraska	\$2.77	39	\$3.59	49
Nevada	\$5.94	1	\$4.33	40
New Hampshire	\$3.20	27	\$6.07	5
New Jersey	\$3.41	21	\$4.95	21
New Mexico	\$3.72	14	\$4.73	27
New York	\$3.96	8	\$5.68	8
North Carolina	\$3.41	22	\$5.34	15
North Dakota	\$3.18	28	\$3.92	46
Ohio	\$3.81	11	\$4.99	19
Oklahoma	\$1.82	48	\$4.22	43
Oregon	\$3.22	25	\$4.89	24
Pennsylvania	\$3.72	15	\$5.98	6
Rhode Island	\$4.40	4	\$7.02	2
South Carolina	\$3.08	30	\$5.13	18
South Dakota	\$2.96	35	\$4.00	45
Tennessee	\$2.74	40	\$4.48	33
Texas	\$1.99	46	\$4.41	37
Utah	\$3.23	24	\$4.30	41
Vermont	\$3.00	32	\$4.72	29
Virginia	\$3.60	12	\$4.16	44
Washington	\$2.71	41	\$5.65	10
West Virginia	\$3.00	33	\$6.47	4
Wisconsin	\$3.91	9	\$4.78	26
Wyoming	\$2.96	36	\$4.45	35
National Average	\$2.60		\$4.71	

Mcf = Million Cubic Feet

Source: Department of Energy, Natural Gas Monthly (Numbers subject to revision).

Average Electric Retail Price and Monthly Consumption By State, 1987

State	Average Retail Price* (cents per kilowatthour)			Average Consumption** (kilowatthours)		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	6.45	6.65	4.51	1,014	3,887	216,254
Alaska	9.81	8.49	7.84	671	4,892	74,908
Arizona	8.56	7.85	5.24	880	6,552	179,603
Arkansas	7.06	6.48	4.97	855	4,356	33,650
California	8.04	8.54	6.85	518	4,265	123,551
Colorado	6.83	5.69	4.36	569	5,145	287,440
Connecticut	9.15	8.24	6.80	645	6,857	108,720
Delaware	8.26	6.70	4.53	771	6,229	340,528
District of Columbia	6.53	6.93	5.58	635	14,895	1,327,443
Florida	7.75	6.67	5.11	951	5,604	53,791
Georgia	6.76	6.74	4.44	916	5,972	109,788
Hawaii	9.43	9.42	6.85	585	3,512	420,349
Idaho	4.59	4.17	2.58	1,123	5,507	136,456
Illinois	10.17	8.04	5.65	630	5,739	707,505
Indiana	7.30	6.17	4.56	841	4,747	133,686
IOWA	7.82	6.84	4.34	748	3,248	220,984
Kansas	8.06	6.88	5.23	727	4,538	49,273
Kentucky	5.69	5.48	4.77	943	3,995	234,550
Louisiana	7.19	6.75	4.19	1,040	5,622	125,390
Maine	8.12	6.89	4.82	580	3,375	154,952
Maryland	6.89	6.72	4.58	891	5,137	256,705
Massachusetts	8.71	7.91	6.83	545	5,285	60,434
Michigan	7.32	7.58	5.53	566	4,318	188,468
Minnesota	6.61	5.82	4.27	687	3,150	207,199
Mississippi	6.49	6.87	5.03	985	3,810	128,451
Missouri	7.37	6.47	4.90	825	5,760	90,908
Montana	5.52	4.93	2.87	775	3,694	133,642
Nebraska	5.98	5.43	3.87	831	3,961	87,151
Nevada	5.82	6.21	4.48	941	2,894	752,710
New Hampshire	9.10	8.38	6.38	601	2,411	179,824
New Jersey	9.90	8.57	6.72	579	5,431	106,327
New Mexico	9.07	8.32	5.52	504	4,073	74,037
New York	10.51	9.91	5.03	484	4,752	245,069
North Carolina	7.37	6.29	4.71	997	2,862	172,039
North Dakota	6.29	6.59	5.13	886	2,882	56,716
Ohio	7.70	7.05	4.03	752	5,377	174,507
Oklahoma	6.74	5.97	3.82	871	4,344	57,560
Oregon	4.80	5.09	3.38	1,028	4,792	443,520
Pennsylvania	8.86	7.66	5.77	667	4,372	126,297
Rhode Island	8.85	7.91	7.47	496	4,551	42,892
South Carolina	7.18	6.29	4.19	1,057	4,710	462,914
South Dakota	6.80	6.59	4.57	818	2,697	63,178
Tennessee	5.42	6.14	5.26	1,197	2,352	146,062
Texas	6.74	5.91	4.03	987	5,455	66,563
Utah	7.95	7.05	4.90	614	6,046	53,098
Vermont	9.44	8.27	6.75	492	3,596	78,764
Virginia	6.70	5.92	4.14	1,043	6,575	286,315
Washington	4.16	4.01	2.29	1,160	5,996	470,193
West Virginia	6.10	5.62	3.84	801	4,213	73,760
Wisconsin	6.72	6.11	4.20	665	4,343	279,014
Wyoming	6.11	5.34	3.64	710	3,899	209,308
U.S. Average	7.44	7.09	4.78	769	4,749	131,000

* Average retail price is calculated by dividing revenue by average electricity sales.

** Average monthly consumption is calculated by dividing 12 into the quotient of average annual sales divided by average number of consumers.

Source: Typical Electric Bills, Energy Information Administration, Based on Jan. 11, 1988 rates.

Total Iowa Energy Consumption, 1985-87

Type	Primary Energy Deliveries		
	1985	1986	1987
Motor gas (mil. gal.)	1,427.28	1,446.15	1,327.79
Distillate (mil. gal.)	679.80	705.55	622.00
Propane (mil. gal.)	336.76	267.02	375.40
Residual (mil. gal.)	0.52	0.77	5.21
Aviation Fuel (mil. gal.)	46.21	25.46	4.62
Natural Gas (bil. cf)	207.19	214.26	201.00
Coal/Coke (thous. short tons)	14,342.00	13,600.00	15,191.00
Uranium (bil. kWh)	20.52	20.67	2.50
Hydroelectric (bil. kWh)	2.46	2.48	0.97

Source: Energy Information Administration, State Energy Price and Expenditure Report 1987, September 1989

Iowa's Primary Energy Use, 1985-87

Source	1985	Percent of Total 1986	1987
Natural gas	24.20%	25.30%	23.78%
Gasoline	20.30%	20.70%	23.31%
Distillate	10.70%	11.20%	10.78%
LP	3.50%	2.80%	3.84%
Aviation/Residual	0.71%	0.41%	0.16%
Coal/Coke	29.60%	28.40%	33.74%
Nuclear	7.90%	8.00%	3.22%
Hydropower	3.10%	3.20%	1.17%

Source: Energy Information Administration, State Energy Data Report, Consumption Estimates 1960-1987, April 1989.

Major Components of Iowa's Energy Cost, 1987

	Cost (millions)	Percent
Electricity	\$1,755.0	37.45%
Gasoline	1,404.3	29.96%
Natural gas	700.2	14.94%
Distillate	546.2	11.66%
Propane	192.0	4.10%
Coal (non-utility)	78.8	1.68%
Aviation	8.3	0.18%
Residual	1.7	0.04%
TOTAL	4,686.8	100.0%

Source: Energy Information Administration, Annual Energy Review, 1989.

Total Energy Consumption by Source, Iowa, 1980-87

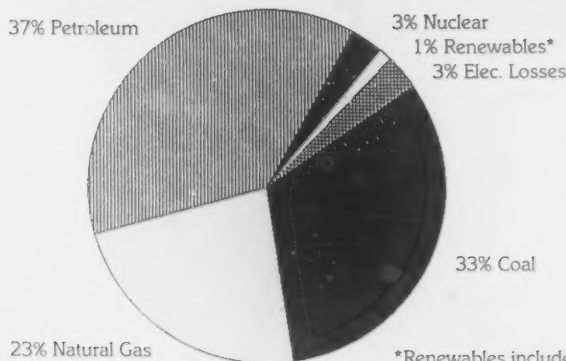
(Trillion Btu)

Year	Coal	Natural Gas	Petroleum	Nuclear	Renewables*	Electricity Loss	Total
1980	234.4	270.4	373.3	28.0	10.1	44.5	960.7
1981	252.1	254.0	339.3	24.3	10.5	49.4	929.6
1982	243.9	239.0	347.3	25.1	9.8	58.7	923.8
1983	253.7	223.6	325.7	25.2	10.2	64.0	902.4
1984	251.5	238.4	337.6	29.3	10.0	56.0	922.8
1985	268.8	228.4	340.4	20.8	21.8	41.5	921.7
1986	262.1	209.0	346.1	32.3	10.5	33.4	893.4
1987	287.3	202.5	324.3	27.4	10.7	25.1	877.3

*Renewable includes hydroelectric, wood, waste, wind, photovoltaic and solar thermal.

Source: Energy Information Administration, State Energy Data Report, Consumption Estimates 1960-87, April 1989.

Energy Use by Source, Iowa 1987



Source: Energy Information Administration, State Energy Data Report, Consumption Estimates 1960-87, April 1989.

*Renewables include hydro, wood, waste, wind, photovoltaic and solar.

Expenditures of Energy*, Iowa, 1980-87

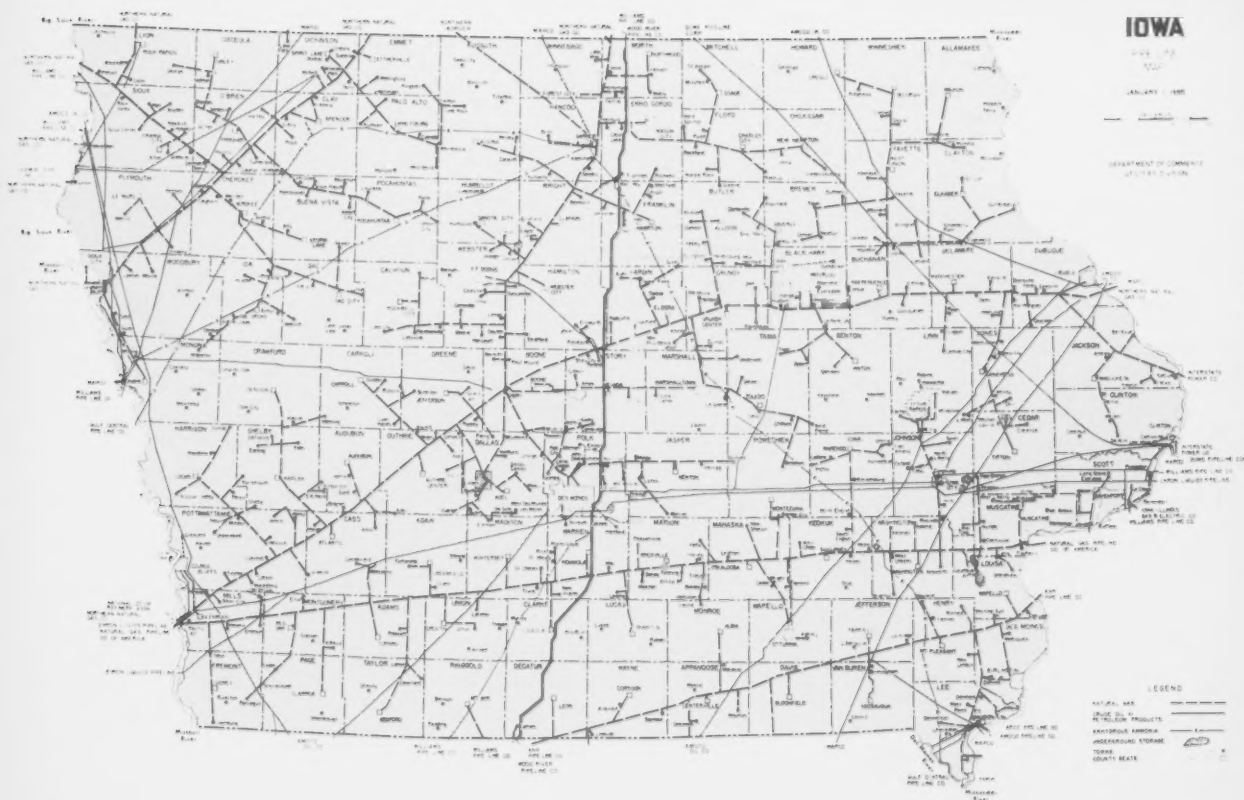
(Millions of Dollars)

YEAR	Coal	Natural Gas	Petroleum	Electricity	Total
1980	55.6	719.9	3036.7	1184.5	4996.7
1981	66.3	831.7	3171.5	1433.5	5503.0
1982	66.9	963.8	3071.7	1561.9	5664.3
1983	63.2	1025.3	2717.5	1745.1	5551.1
1984	64.8	1071.6	2749.8	1861.9	5748.1
1985	72.6	1003.4	2745.9	1864.5	5686.4
1986	67.0	851.8	2259.6	1733.1	4911.5
1987	78.8	700.2	2152.8	1755.0	4686.8

* Expenditures on energy from four primary sectors (residential, commercial, industrial, and transportation).

Source: Energy Information Administration, State Energy Price and Expenditure Report 1987, September 1989.

Pipelines Serving Iowa



Source: Iowa Department of Commerce, Utilities Division

CLIMATE

Iowa's four distinct seasons provide a climate that is classified as humid continental. Temperatures vary through a wide range, arriving at an annual average of 48 degrees. A typical year provides 203 days with considerable sunshine and 162 days with less than 25% sunshine. Average annual sunshine is about 60% of the possible. Since much of the average 32 inches of rain comes during the growing season, Iowa's climate is ideal for agriculture. Winter snowfall averages 32 inches, and relative humidity averages 70 percent.

Clean air and clean water have been maintained in abundance in the state, with enforcement of pollution laws assuring their existence in the future.

Located between the Upper Mississippi and the Missouri Rivers, the State of Iowa comprises 56,000 square miles with an extreme north-south distance of 205 miles and an extreme east-west distance of 310 miles. Primarily rolling prairie, elevation changes are small across the State, varying from 1670 feet in Osceola County in the northwest to 480 feet at the mouth of the Des Moines River in the southeast. Some rugged terrain, mainly of forest soils, may be found in the northeast, yet most of the state's natural lakes are located in the northwest.

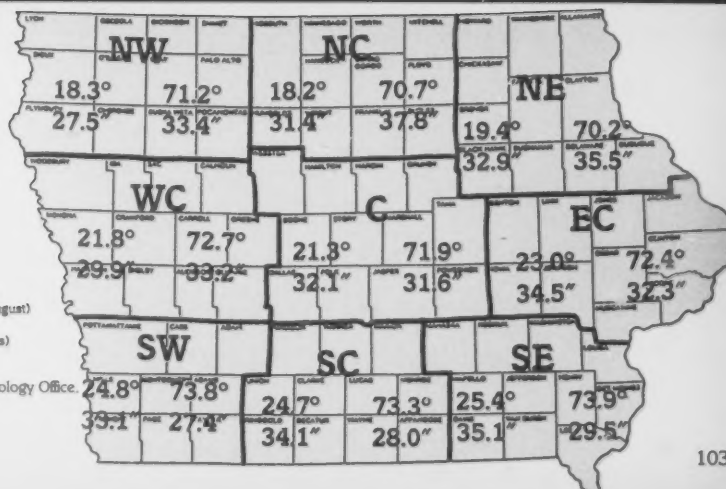


Normal Temperature and Precipitation, 1951-1980

City	Normal Temperature					City	Normal Precipitation				
	Dec. Jan. Feb.	Mar. Apr. May	June July Aug.	Sept. Oct. Nov.	Year		Dec. Jan. Feb.	Mar. Apr. May	June July Aug.	Sept. Oct. Nov.	Year
Burlington	25.2	50.1	73.3	53.3	50.5	Burlington	4.39	10.07	11.82	8.09	34.37
Carroll	20.9	47.4	71.8	50.3	47.6	Carroll	2.61	9.42	12.22	6.47	30.72
Cedar Rapids	22.7	48.7	72.3	51.8	48.9	Cedar Rapids	3.81	10.71	13.19	8.30	36.01
Council Bluffs	24.8	51.0	75.4	53.3	51.1	Council Bluffs	2.45	9.18	11.80	6.91	30.34
Creston	23.9	49.4	72.9	52.1	49.6	Creston	2.92	9.73	13.15	7.91	33.71
Davenport	23.7	49.2	73.0	52.5	49.5	Davenport	4.86	10.95	12.96	8.40	37.17
Decorah	18.5	45.6	70.0	49.0	45.8	Decorah	2.67	9.35	12.96	7.01	31.99
Des Moines	22.9	49.2	73.9	52.6	49.7	Des Moines	3.18	9.37	11.51	6.77	30.83
Dubuque	19.9	45.9	69.8	49.4	46.3	Dubuque	4.51	11.52	12.97	9.49	38.58
Fort Dodge	20.3	47.1	71.7	50.3	47.4	Fort Dodge	2.87	8.94	13.67	6.80	32.28
Mason City	17.0	44.6	70.1	48.2	44.9	Mason City	2.64	8.71	12.92	6.54	30.81
Ottumwa	24.2	49.9	74.0	53.2	50.3	Ottumwa	3.43	9.73	12.36	7.73	33.25
Rock Rapids	17.7	45.8	71.5	48.6	45.9	Rock Rapids	2.17	7.01	10.95	5.40	25.53
Sioux City	20.9	48.3	73.3	51.1	48.4	Sioux City	2.28	7.43	10.49	5.17	25.37
Spencer	17.3	44.9	70.5	47.9	45.1	Spencer	2.24	7.99	11.63	5.85	27.71
Waterloo	18.6	45.8	70.6	49.1	46.1	Waterloo	2.98	9.95	12.70	7.47	33.1
State of IOWA	21.7	48.0	72.2	51.1	48.2	State of IOWA	3.03	9.30	12.53	7.23	32.09

Source: U.S. Department of Commerce, National Climatic Data Center

Climate Areas in Iowa



LEGEND

Average winter temperature
(F degrees for December, January and February)

Average Annual rainfall (inches)

Average summer temperature
(F degrees for June, July and August)

Average annual snowfall (inches)

Source: Iowa Department of Agriculture and Land Stewardship, State Climatology Office.

Climate: Monthly and Annual Averages

(1951-1980)												
Precipitation	J	F	M	A	M	J	J	A	S	O	N	D Annual
Northwest	0.56	0.93	1.72	2.45	3.56	4.25	3.54	3.90	2.92	1.82	1.09	0.77 27.51
North Central	0.82	0.93	2.04	2.93	3.96	4.63	4.21	4.15	3.22	2.09	1.39	0.98 31.35
Northeast	0.93	0.98	2.13	3.40	4.05	4.43	4.36	4.00	3.40	2.35	1.69	1.22 32.94
West Central	0.74	1.01	2.00	2.87	4.02	4.52	3.49	3.95	3.18	2.10	1.23	0.82 29.93
Central	0.88	1.04	2.15	3.24	4.08	4.74	3.89	4.16	3.23	2.25	1.46	0.99 32.11
East Central	1.24	1.11	2.44	3.65	3.99	4.33	4.15	4.02	3.55	2.51	1.92	1.57 34.48
Southwest	0.84	1.02	2.12	3.15	4.14	4.66	3.99	4.53	3.79	2.44	1.50	0.93 33.11
South Central	1.03	1.07	2.36	3.57	4.00	4.55	3.88	4.21	3.96	2.61	1.73	1.11 34.08
Southeast	1.33	1.10	2.59	3.71	3.91	4.18	4.19	4.09	3.85	2.78	1.79	1.56 35.08
State	0.92	1.02	2.15	3.19	3.96	4.48	3.95	4.10	3.42	2.30	1.51	1.09 32.09
Total Snowfall (inches)	J	F	M	A	M	J	J	A	S	O	N	D Annual
Northwest	6.1	7.5	8.6	1.2	T	0.0	0.0	0.0	T	0.4	3.1	6.5 33.4
North Central	7.9	7.2	10.0	1.5	T	0	0	0	0	0	T	0.1 3.4
Northeast	7.5	6.8	8.7	1.6	T	0	0	0	0	0	T	0.1 3.0
West Central	7.6	6.9	8.1	1.4	T	0	0	0	0	0	T	0.4 2.8
Central	7.0	6.9	7.3	1.3	T	0	0	0	0	0	T	0.1 2.6
East Central	7.8	6.5	6.8	1.3	T	0	0	0	0	0	0	0.2 2.1
Southwest	7.2	5.8	5.4	1.1	T	0	0	0	0	0	T	0.2 2.3
South Central	7.3	5.8	6.0	1.3	T	0	0	0	0	0	0	0.2 2.1
Southeast	8.0	5.9	6.2	0.9	T	0	0	0	0	0	0	0.2 2.0
State	7.3	6.7	7.6	1.3	T	0	0	0	0	T	0.2	2.6 6.6
Temperature (F degrees)	J	F	M	A	M	J	J	A	S	O	N	D Annual
Northwest	13.7	20.3	30.9	47.2	59.5	69.1	73.4	71.1	61.8	50.8	34.4	21.0 46.1
North Central	13.6	20.1	30.7	47.0	59.5	69.0	72.7	70.5	61.8	51.0	34.8	21.0 46.0
Northeast	15.0	20.9	31.6	47.2	58.8	68.2	72.2	70.2	61.6	51.0	35.5	22.2 46.2
West Central	17.3	23.8	34.1	49.7	61.2	70.5	74.9	72.6	63.7	52.8	37.0	24.4 48.5
Central	16.9	23.0	33.6	49.1	60.8	70.0	74.1	71.7	63.2	52.4	37.1	24.1 48.0
East Central	18.8	24.5	35.1	49.9	61.2	70.4	74.4	72.4	64.3	53.4	38.5	25.7 49.1
Southwest	20.5	26.8	37.0	51.7	62.6	71.6	76.0	73.8	65.2	54.4	39.2	27.2 50.5
South Central	20.4	26.5	36.6	51.3	62.1	71.0	75.6	73.3	65.1	54.4	39.5	27.2 50.3
Southeast	21.2	27.1	37.3	51.9	62.7	71.8	76.0	73.8	65.9	55.0	40.4	28.0 50.9
State	17.3	23.5	33.9	49.3	60.9	70.1	74.3	72.1	63.5	52.7	37.2	24.3 48.2
Mean Heating Degrees Days	J	F	M	A	M	J	J	A	S	O	N	D Annual
Northwest	1590	1251	1058	534	229	49	12	21	155	451	917	1363 7630
North Central	1592	1257	1062	541	229	47	15	24	146	445	906	1363 7627
Northeast	1551	1236	1034	535	240	51	15	25	145	446	884	1326 7488
West Central	1479	1153	959	461	187	34	10	17	121	393	841	1258 6913
Central	1489	1174	974	478	198	41	8	19	122	406	838	1269 7016
East Central	1432	1132	929	455	188	29	4	11	94	376	795	1218 6663
Southwest	1380	1068	870	403	163	26	10	12	94	350	774	1172 6322
South Central	1382	1078	882	414	169	30	8	13	96	351	766	1171 6360
Southeast	1358	1062	862	398	161	23	3	10	75	334	740	1146 6172
State	1479	1163	965	473	198	37	10	17	119	398	834	1260 6953
T=Trace												
Source: Iowa Department of Agriculture and Land Stewardship, State Climatology Office.												

FAMILIES AND CHILDREN

In Iowa in 1980, there were 770,283 family households. The census defines a family as two or more persons, including the householder, who are related by birth, marriage, or adoption, and live together as one household. Thus, in addition to the conventional family of two parents with children, many other households of relatives were considered families. Families were further classified by the sex and marital status of the householder, resulting in three general types: a married couple family, the family of a female householder with no husband present, and the family of a male householder with no wife present. The majority—by far—of Iowa families were married-couple families. The proportion of this type of family has remained nearly constant between 1970 and 1980.

The number of families of female householders with no husband present increased by more than 21,000 from 1970 to 1980; indeed, the percentage increase was more than 40%. The number of families of male householders with no wife present also increased, although the numerical (3,700) and percentage (23%) jumps were much smaller than those for families of female householders with no husband present.

The number of children in married-couple families declined by more than 175,000 from 1970 to 1980. At the same time, increases were occurring in the numbers of children in families of female householders with no husband present (23,383) and of male householders with no wife present (3,327). In percentage terms, the decline in the number of children was more than 20% in married couple families while the increases were greater than 37% in the families headed by female and male householders with no spouse present. In 1980, nearly 88% of all children in families were with married couples; this was a decrease from nearly 93% in 1970.

In 1980 the most common type of family of female householders with no husband present was that in which the woman was divorced, but in both 1960 and 1970 the most common type was that in which the woman was widowed.

Finally, there has been a substantial increase in both number and proportion of families of younger female householders with no husband present. In 1960, less than 14% of these female householders were under age 35. By 1980 those under age 35 totaled nearly 38% of all female householders.

Source: *Women in Iowa: 1980 and a Century of Perspective*, Cooperative Extension Service, Iowa State University



Type of Family by Marital Status and Sex of Householders, 1970 & 1980

Family Type	1980	Percent of Total	1970	Percent of Total
Total families	770,283		713,490	
Married Couples	677,127	87.9%	645,082	90.4%
Female householders	73,029	9.5%	52,025	7.3%
Male householders	20,127	2.6%	16,383	2.3%

Source: *Women in Iowa: 1980 and a Century of Perspective*, Cooperative Extension Service, Iowa State University.

Type of Family by Presence and Number of Own Children, Iowa, 1970 & 1980

Family Type	Number of Families with Children				Number of Children	
	1980	Percent of Total	1970	Percent of Total	1980	1970
Total families	396,055		385,919		785,953	935,611
Married couples	342,301	86.4%	355,048	92.0%	690,378	866,796
Female householders	46,047	11.6%	26,570	6.9%	83,128	59,745
Male householders	7,707	1.9%	4,301	1.1%	12,447	9,070

Source: *Women in Iowa: 1980 and a Century of Perspective*, Cooperative Extension Service, Iowa State University.

Selected Family Types by Marital Status, Iowa, 1960, 1970 & 1980

Marital Status and Family Type	1980			1970			1960		
	Total	Percent of total	Percent of Female Householders	Total	Percent Total	Percent of Female Householders	Total	Percent of total	Percent of Female Householders
Total Families	773,311			717,776			711,716		
Married Couple	683,675	88.4%		643,923	89.7%		646,228	90.8%	
Female householder, (no husband present)	70,509	9.1%		53,349	7.4%		47,177	6.6%	
Married, husband absent, separated	6,285		8.9%	4,270		8.0%	2,553		5.4%
Married, husband absent, other	1,416		2.0%	3,221		6.0%	2,281		4.8%
Widowed	21,024		29.8%	25,425		47.6%	27,247		57.7%
Divorced	31,701		44.9%	14,431		27.0%	8,917		18.9%
Single	10,083		14.3%	6,002		11.3%	6,179		13.1%

Source: *Women in Iowa: 1980 and a Century of Perspective*, Cooperative Extension Service, Iowa State University.

Selected Family Types by Age of Householder, Iowa

Family Type & Age of Householder	1980	1970	1960
Married Couple	683,675	643,923	646,228
Under 25	46,140	45,346	36,437
25-34	162,900	128,982	129,410
35-44	128,599	127,489	145,854
45-54	119,271	132,102	132,095
55-64	114,714	109,191	104,527
65-74	76,027	68,113	71,608
75+	35,424	32,700	26,297
Female Householder, No Husband Present	70,509	53,349	47,177
Under 35	26,656	12,679	6,373
35-44	14,461	9,006	7,572
45-64	17,431	18,366	17,512
65+	11,061	13,298	15,720

Source: *Women in Iowa: 1980 and a Century of Perspective*, Cooperative Extension Service, Iowa State University.

AFDC Recipients, FY 1988

State	Average Number of Families (000's)	Rank	Percent of Population	Rank
Alabama	45.4	24	3.2	30
Alaska	7.5	43	3.8	21
Arizona	32.1	31	2.7	41
Arkansas	23.4	34	2.8	38
California	587.3	1	6.1	4
Colorado	32.9	30	2.9	35
Connecticut	37.4	26	3.2	29
Delaware	7.6	42	3.0	34
Florida	110.6	8	2.5	45
Georgia	87.8	12	3.9	18
Hawaii	13.4	40	3.8	20
Idaho	6.4	46	1.7	48
Illinois	220.1	4	5.8	7
Indiana	53.0	23	2.7	40
IOWA	37.1	28	3.7	25
Kansas	24.0	33	2.8	37
Kentucky	58.3	20	4.2	14
Louisiana	90.8	10	6.2	3
Maine	18.0	36	4.3	12
Maryland	63.3	18	3.8	23
Massachusetts	86.7	13	4.0	16
Michigan	213.2	5	6.9	1
Minnesota	54.7	22	3.8	22
Mississippi	60.0	19	6.9	2
Missouri	67.8	16	4.0	17
Montana	9.5	41	3.5	27
Nebraska	14.7	39	2.7	42
Nevada	6.2	47	1.6	49
New Hampshire	4.3	50	1.0	50
New Jersey	106.8	9	4.1	15
New Mexico	20.8	35	3.9	19
New York	340.9	2	5.6	8
North Carolina	70.6	15	2.8	39
North Dakota	5.2	48	2.2	47
Ohio	225.5	3	6.0	5
Oklahoma	35.5	29	3.1	31
Oregon	30.7	32	3.1	32
Pennsylvania	179.3	6	4.5	11
Rhode Island	15.1	37	4.2	13
South Carolina	40.9	25	3.3	28
South Dakota	6.5	45	2.6	43
Tennessee	67.5	17	3.8	24
Texas	169.4	7	3.0	33
Utah	14.9	38	2.6	44
Vermont	7.1	44	3.6	26
Virginia	54.7	21	2.4	46
Washington	75.5	14	4.6	10
West Virginia	37.4	27	5.9	6
Wisconsin	89.1	11	5.5	9
Wyoming	5.1	49	2.9	36
U.S. Total	3,747.8		4.4	

Source: Committee on Ways and Means, U.S. House of Representatives, *Background Material and Data on Programs Within the Jurisdiction of the Committee on Ways & Means*, 1989 Edition, March 15, 1989.

Food Stamp Recipients, FY 1988

State	Number of Households (000's)	Percent of Population	Total Value of Food Stamps Issued (\$Million)	Average Monthly Value of Food Stamps per Household (\$)
Alabama	155.3	10.6	\$265.7	\$142.5
Alaska	9.5	5.6	26.8	234.3
Arizona	75.8	6.6	146.9	161.5
Arkansas	82.8	9.5	126.3	127.0
California	571.9	5.9	698.2	101.7
Colorado	78.1	6.2	126.9	135.5
Connecticut	40.2	3.3	49.7	102.9
Delaware	10.7	4.4	18.0	140.3
Florida	241.9	5.0	403.8	139.1
Georgia	172.0	7.3	274.5	133.0
Hawaii	30.9	7.3	77.8	210.2
Idaho	21.3	6.2	37.7	147.8
Illinois	415.2	8.9	727.8	146.1
Indiana	104.1	5.4	189.5	151.6
IOWA	70.2	6.3	102.2	121.3
Kansas	45.1	4.8	74.0	136.6
Kentucky	166.6	12.7	302.3	151.3
Louisiana	238.2	16.4	461.6	161.5
Maine	37.2	7.1	47.3	106.1
Maryland	101.9	5.2	166.3	136.1
Massachusetts	129.8	5.1	142.9	91.8
Michigan	358.9	9.4	505.4	117.3
Minnesota	94.1	5.5	121.1	107.3
Mississippi	167.6	18.8	304.5	151.4
Missouri	144.5	7.6	234.4	135.2
Montana	21.5	7.2	35.5	137.4
Nebraska	36.5	6.0	51.2	117.1
Nevada	16.9	3.5	25.8	127.5
New Hampshire	8.8	1.7	9.6	90.7
New Jersey	136.1	4.6	221.0	135.3
New Mexico	49.0	10.0	97.0	165.1
New York	669.5	8.6	909.4	113.2
North Carolina	153.7	6.1	221.6	120.1
North Dakota	13.4	5.6	20.1	124.7
Ohio	440.4	9.8	730.3	138.2
Oklahoma	106.8	8.5	166.8	130.1
Oregon	89.6	7.7	142.3	132.3
Pennsylvania	390.5	7.8	539.9	115.2
Rhode Island	24.8	5.7	31.6	106.2
South Carolina	92.1	7.6	158.1	143.1
South Dakota	17.0	7.2	30.9	151.3
Tennessee	185.6	10.0	293.9	131.9
Texas	491.7	9.1	984.4	166.9
Utah	31.4	5.3	55.0	145.9
Vermont	14.8	6.1	16.9	95.3
Virginia	132.8	5.4	194.6	122.1
Washington	124.5	6.6	176.0	117.8
West Virginia	92.7	13.9	164.8	148.1
Wisconsin	107.6	6.5	159.5	123.5
Wyoming	9.8	5.8	17.1	145.3
U.S. Total	7054.8	7.6	11,149.1	131.7

Source: Unpublished data from the U.S. Department of Agriculture, Food & Nutrition Service, Public Information Data Bank, September 1, 1989.

Appendix A: Reference Section

For further information on topics contained in this publication, contact the following individuals/agencies:

AGRICULTURE:

Howard Holden
Deputy State Statistician
Iowa Department of Agriculture
& Land Stewardship
210 Walnut, Room 833
Des Moines, IA 50309
(515)284-4340

OR

Duane Skow
State Statistician
Iowa Department of Agriculture
& Land Stewardship
210 Walnut, Room 833
Des Moines, IA 50309
(515)284-4340

CLIMATE:

Harry Hillaker
State Climatologist
Iowa Department of Agriculture
& Land Stewardship
Terminal Bldg., Room 212
International Airport
Des Moines, IA 50321
(515)281-4062

COMMUNICATIONS:

Telecommunications:

Linda Schatz
Director of Narrowcast Telecommunications
Iowa Public Television
6450 Corporate Drive
Johnston, IA 50131
(515)281-4500

Telephones:

Twila Morris
Public Information Bureau Chief
Iowa Department of Commerce
Utilities Division
5th Floor, Lucas Bldg.
Des Moines, IA 50319
(515)281-3839

Newspapers:

Bill Monroe
Executive Director
Iowa Newspaper Association
319 E. 5th St.
Des Moines, IA 50309
(515)244-2145

OR

Karen Thuent
Director of Member Services
Iowa Newspaper Association
319 E. 5th St.
Des Moines, IA 50309
(515)244-2145

Commercial Broadcast:

Larry Edwards
Executive Secretary
Iowa Broadcasters Association
P.O. Box 336
Cedar Rapids, IA 52406
(319)366-8016

CRIME:

Michael R. Coveyou
Research & Statistics Manager
Iowa Department of Public Safety
613 E. Locust
Des Moines, IA 50319
(515)281-5524

EDUCATION:

Higher Education:

Mr. Keith Greiner
Director of Research
Iowa College Aid Commission
201 Jewett Building
9th & Grand
Des Moines, IA 50309

Area Colleges:

Vic Lundy
Iowa Department of Education
Bureau of Area Schools
Grimes State Office Building
E. 14th & Grand Ave.
Des Moines, IA 50319-0146
(515)281-4722

Appendix A: Reference Section (continued)

Elementary/Secondary Enrollment:

Jim Gould
Iowa Department of Education
Grimes State Office Building
E. 14th & Grand Ave.
Des Moines, IA 50319-0146
(515)281-3214

ENERGY:

Iowa Energy Consumption:

Kitty Sibold
Iowa Department of Natural Resources
Wallace Building
E. 9th & Grand Ave.
Des Moines, IA 50319
(515)281-6486

FINANCE:

Banking:

Maureen Patterson
Iowa Department of Commerce
Division of Banking
200 E. Grand
Des Moines, Iowa 50309
(515)281-4014

Savings & Loans:

Mr. Jerry V. Orman
Director of Public Information
Office of Thrift Supervision
Department of the Treasury
907 Walnut
Des Moines, IA 50309
(515)281-1133

HEALTH:

Practicing Physicians:

Julie Einhellig
University of Iowa
College of Medicine
Office of Community-Based Programs
Iowa City, Iowa 52240
(319)335-8618

Vital Statistics:

Pierce Wilson
Iowa Department of Public Health
Lucas State Office Building
E. 12th & Walnut St.
Des Moines, IA 50319
(515)281-5872

Hospitals:

Perry Meyer
Iowa Hospital Association
100 E. Grand Avenue
Des Moines, IA 50309
(515)288-1955

HOUSING:

Iowa Sales:

Marie Callas
Director of Communications
Iowa Association of Realtors
999 Oakridge
Des Moines, IA 50314
(515)244-2294

INSURANCE:

Terri Vaughan, Director
Drake University
Insurance Center
Aliber Hall
Des Moines, IA 50311
(515)271-2134

INTERNATIONAL:

Ag. Exports:

Steve Ferguson
Iowa Department of Agriculture
& Land Stewardship
Wallace Building
E. 9th & Grand Ave.
Des Moines, IA 50319
(515)281-6190

POPULATION:

Census Data:

Beth Henning
State Data Center Coordinator
State Library
E. 12th & Grand
Des Moines, IA 50319
(515)281-4350

OR

Willis Goudy, Sociologist
Census Services
Iowa State University
320 E. Hall
Ames, IA 50011
(515)294-8337

Appendix A: Reference Section (continued)

TAXES:

Iowa General Funds Receipts:

Ron Amosson
Iowa Department of Management
State Capitol
1007 E. Grand Avenue
Des Moines, IA 50319-0001
(515)281-3078

TOURISM:

Nancy Landess
Iowa Department of Economic Development
Division of Tourism
200 E. Grand Avenue
Des Moines, IA 50309
(515)281-3001

Recreation Statistics:

Public Information
Iowa Department of Natural Resources
Wallace Building
E. 9th & Grand Ave.
Des Moines, IA 50319
(515)281-5145

TRANSPORTATION:

Iowa Department of Transportation
Office of Advance Planning
Ames, IA 50010
(515)239-1664

WORKFORCE/EMPLOYMENT:

Labor Force/Unemployment Rates:

Ann Wagner
Iowa Department of Employment Services
1000 E. Grand Avenue
Des Moines, IA 50309
(515)281-8182

New Jobs:

Paulette Day
Iowa Department of Employment Services
1000 E. Grand Avenue
Des Moines, IA 50309
(515)242-6289

STATISTICAL PROFILE QUESTIONNAIRE

Your responses to this questionnaire will provide valuable information which will enable us to modify and add new material to the Statistical Profile of Iowa. Please fill this out as completely as possible so that we can serve you better in future editions. Thank you for your time and cooperation.

1a. Which sections do you refer to frequently? Mark an X by all that apply.

- | | | |
|---|---|--|
| ☐ Population | ☐ Construction | ☐ Government Finances/Taxes |
| ☐ Education | ☐ Finance | ☐ Tourism |
| ☐ Crime | ☐ Insurance | ☐ Transportation |
| ☐ Housing | ☐ Retail/Wholesale | ☐ Exports |
| ☐ Health | ☐ Service | ☐ Energy |
| ☐ Agriculture | ☐ Workforce | ☐ Climate |
| ☐ Communications | ☐ Economy/Income | ☐ Families and Children |

1b. Which specific subjects within these sections do you refer to most frequently?
(e.g. Per Capita Income information within the Economy/Income section.)

1c. Are there subjects for which you would like to see more detail or coverage at the state level? (Please Specify)

1d. Are there subjects for which you would like to see more detail or coverage for county or metropolitan area levels?
(Please Specify)

2. For data shown in the tables you use, would you prefer -

☐ Fewer years, more subject matter detail

☐ More years, less subject matter detail

☐ No change

3. In considering the presentation of time series data, would you prefer -

☐ More historical data, at the expense of data for recent years

☐ More data for recent years, at the expense of historical data

☐ No change

4. What is the main use you make or intend to make of the Statistical Profile?

- ☐ General reference
- ☐ Research on specific subjects
- ☐ Guide to other sources
- ☐ Other - Specify _____

5. Please indicate your frequency of use of the following parts of the Statistical Profile. Mark (X) the appropriate box for items a-f below.

	Frequently Used	Seldom Used	Never Used
a. Table of Contents	_____	_____	_____
b. Text introduction to each section	_____	_____	_____
c. Reference Section	_____	_____	_____
d. Index	_____	_____	_____
e. Graphs, Maps, and Charts	_____	_____	_____
f. Electronic Version (On-Line thru State Bulletin Board)	_____	_____	_____

6. Please indicate your overall level of satisfaction with the Statistical Profile.

☐ Very Satisfied ☐ Satisfied ☐ Indifferent ☐ Unsatisfied ☐ Very Unsatisfied

7. It has been suggested that a name change for the Statistical Profile may help promote its visibility. Would you favor a name change?

☐ Yes - Do you have any suggestions for a possible new name? _____ ☐ No ☐ No opinion _____

8. From what source did you learn of the availability of the 1990 edition of the Statistical Profile? (Mark (X) one)

- | | |
|---|--|
| ☐ Announcement in State of Iowa publications | ☐ Standing Order |
| ☐ Business Associate/Colleague | ☐ Friend |
| ☐ Order form received | ☐ Other - Specify _____ |

9. What is your principal occupation? Mark (X) one.

☐ Librarian	☐ Student	☐ Data Processing/Management Information
☐ Teacher	☐ Social Scientist	☐ Consultant
☐ Researcher/Analyst	☐ Journalist/Writer	☐ Business management
☐ Market research/Sales	☐ Regional Planner	☐ Other - Specify _____

10. What is your area of employment? Mark (X) one.

☐ College/University	☐ Marketing/Advertising firm
☐ Government, State or local	☐ Law/Legal firm
☐ Government, Federal	☐ News media/Communications organization
☐ Nonprofit organization	☐ Data processing/Information services
☐ Management/Economics consulting firm	☐ Other private business - Specify _____

11. What other comments do you have regarding this book? (Include suggested statistics to add)

12. What one improvement would you like to see most in the Statistical Profile?

FIRST CLASS
U.S. POSTAGE
PAID
DES MOINES, IA
PERMIT NO. 1195

DEPARTMENT OF ECONOMIC DEVELOPMENT
BUREAU OF PLANNING AND RESEARCH
200 E GRAND AVENUE
DES MOINES IOWA 50309